

GRAPHIC OPERATION TERMINAL GOT2000 Series

User's Manual (Utility)



Thank you for choosing Mitsubishi Graphic Operation Terminal (Mitsubishi GOT). Read this manual and make sure you understand the functions and performance of the GOT thoroughly in advance to ensure correct use.

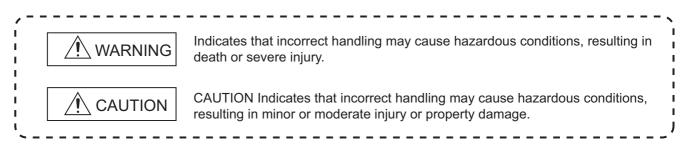


(Always read these precautions before using this equipment.)

Before using this product, please read this manual and the relevant manuals introduced in this manual carefully and pay full attention to safety to handle the product correctly.

The precautions given in this manual are concerned with this product.

In this manual, the safety precautions are ranked as "WARNING" and "CAUTION".



Note that the <u>A</u>caution level may lead to a serious accident according to the circumstances. Always follow the instructions of both levels because they are important to personal safety.

Please save this manual to make it accessible when required and always forward it to the end user.

[DESIGN PRECAUTIONS]

WARNING

- Some failures of the GOT, communication unit or cable may keep the outputs on or off.
 Some failures of a touch panel may cause malfunction of the input objects such as a touch switch.
 An external monitoring circuit should be provided to check for output signals which may lead to a serious accident.Not doing so can cause an accident due to false output or malfunction.
- Do not use the GOT as the warning device that may cause a serious accident. An independent and redundant hardware or mechanical interlock is required to configure the device that displays and outputs serious warning.

Failure to observe this instruction may result in an accident due to incorrect output or malfunction.

[DESIGN PRECAUTIONS]

 When the GOT backlight has a failure, the GOT status will be as follows.Failure to observe this instruction may result in an accident due to incorrect output or malfunction. GT27,GT25,GT23
When the GOT backlight has a failure, the POWER LED blinks (orange/blue) and the display section dims. In such a case, the input by the touch switch(s) is disabled.GT21
When the GOT backlight has a failure, the display section dims. In such a case, the input by the touch switches is disabled.
Even if the display section dims on the liquid crystal of the GOT, the input by the touch switch(s) may remain enabled. This may cause a malfunction of the touch switch.
For example, if an operator assumes that the display section has dimmed because of the screen
save function and touches the display section to cancel the screen save, a touch switch may be activated.
The GOT backlight failure can be checked with a system signal of the GOT.
 The display section of the GOT is an analog-resistive type touch panel.
When multiple points of the display section are touched simultaneously, an accident may occur due
to incorrect output or malfunction.
• GT27
Do not touch three points or more simultaneously on the display section. Doing so may cause an accident due to an incorrect output or malfunction. • GT25,GT23,GT21
Do not touch two points or more simultaneously on the display section. Doing so may operate the switch located around the center of the touched point, or may cause an accident due to an incorrect output or malfunction.
 When programs or parameters of the controller (such as a PLC) that is monitored by the GOT are
changed, be sure to reset the GOT, or turn on the unit again after shutting off the power as soon as possible.
Not doing so can cause an accident due to false output or malfunction.
 If a communication fault (including cable disconnection) occurs during monitoring on the GOT,
communication between the GOT and PLC CPU is suspended and the GOT becomes inoperative.
For bus connection (GT27,GT25 Only) : The CPU becomes faulty and the GOT becomes inoperative.
For other than bus connection : The GOT becomes inoperative.
A system where the GOT is used should be configured to perform any significant operation to the
system by using the switches of a device other than the GOT on the assumption that a GOT
communication fault will occur.
Not doing so can cause an accident due to false output or malfunction.

Not doing so can cause an accident due to false output or malfunction.

[DESIGN PRECAUTIONS]

- Do not bundle the control and communication cables with main-circuit, power or other wiring. Run the above cables separately from such wiring and keep them a minimum of 100mm apart. Not doing so noise can cause a malfunction.
- Do not press the GOT display section with a pointed material as a pen or driver. Doing so can result in a damage or failure of the display section.
- When a GOT2000 series model and a GOT1000 series model are on an Ethernet network, do not set the IP address 192.168.0.18 for the GOTs and the controllers on this network.
 Doing so can cause IP address duplication at the GOT startup, adversely affecting the communication of the device with the IP address 192.168.0.18.
 The operation at the IP address duplication depends on the devices and the system.
- Turn on the controllers and the network devices to be ready for communication before they communicate with the GOT.

Failure to do so can cause a communication error on the GOT.

• When the GOT is subject to shock or vibration, or some colors appear on the screen of the GOT, the screen of the GOT might flicker.

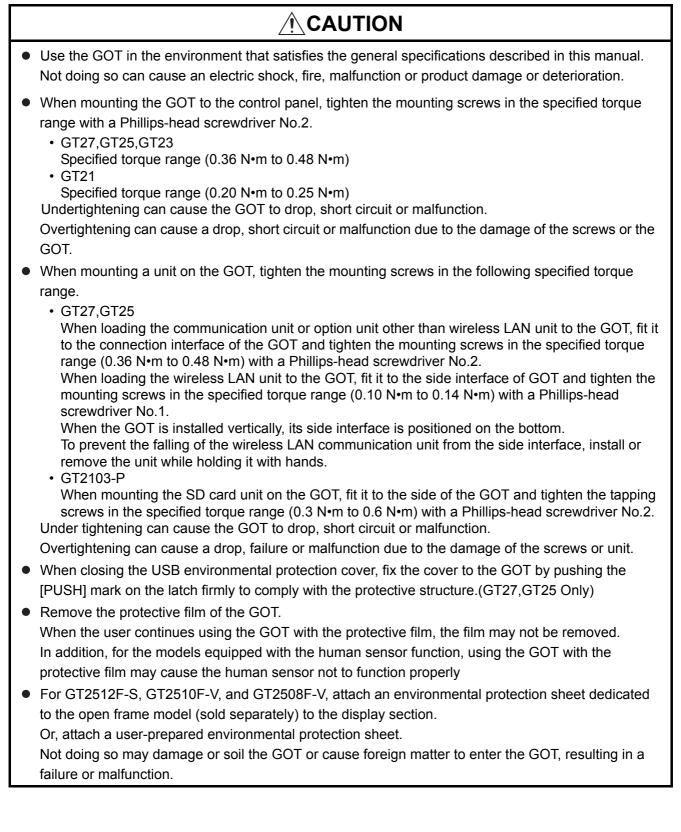
[MOUNTING PRECAUTIONS]

 Be sure to shut off all phases of the external power supply used by the system before mounting or removing the GOT main unit to/from the panel.

Not doing so can cause the unit to fail or malfunction.

• Be sure to shut off all phases of the external power supply used by the system before mounting or removing the option unit onto/from the GOT. (GT27,GT25 Only)

[MOUNTING PRECAUTIONS]



[MOUNTING PRECAUTIONS]

• When installing the supplied fittings on GT2512F-S, GT2510F-V, or GT2508F-V, tighten screws in the specified torque range (0.8 Nom to 1.0 Nom).

Meld studs on the control panel to fasten the fittings.

The studs must have strength adequate to withstand a tightening torque of 0.9 Nom or more. Make sure that no foreign matter such as welding waste is at and around the bases of the studs. Tighten nuts on the studs in the specified torque range (0.8 Nom to 0.9 Nom) with a wrench for M4 nuts.

Undertightening a screw or nut may cause the GOT to drop, short-circuit, or malfunction. Overtightening a screw or nut may damage it or the GOT, causing the GOT to drop, short-circuit, or malfunction.

- Operate and store the GOT in environments without direct sunlight, high temperature, dust, humidity, and vibrations.
- When using the GOT in the environment of oil or chemicals, use the protective cover for oil.
 Failure to do so may cause failure or malfunction due to the oil or chemical entering into the GOT.

[WIRING PRECAUTIONS]

• Be sure to shut off all phases of the external power supply used by the system before wiring. Failure to do so may result in an electric shock, product damage or malfunctions.

[WIRING PRECAUTIONS]

Make sure to ground the FG terminal and LG terminal of the GOT power supply section to the protective ground conductors dedicated to the GOT with a ground resistance of 100 Ω or less. (GT21 does not have the LG terminal.) When tightening the terminal screws, use a Phillips-head screwdriver No.2. Tighten the terminal screws of the GOT power supply section in the following specified torque range. • GT27,GT25,GT23 Specified torque range (0.5 N•m to 0.8 N•m) • For a terminal processing of a wire to the GOT power supply section, use the following terminal. • GT27,GT25,GT23 Use applicable solderless terminals for terminal processing of a wire and tighten them with the specified torque. Not doing so can cause a fire, failure or malfunction. • GT21 Connect a stranded wire or a solid wire directly, or use a rod terminal with an insulation sleeve. Correctly wire the GOT power supply section after confirming the rated voltage and terminal arrangement of the product. Not doing so can cause a fire or failure. • Tighten the terminal screws of the GOT power supply section in the following specified torque range. GT27.GT25.GT23 Specified torque range (0.5 N•m to 0.8 N•m) • GT2105-Q Specified torque range (0.3 N.m to 0.5 N.m) • GT21 Specified torque range (0.22 N•m to 0.25 N•m) • Exercise care to avoid foreign matter such as chips and wire offcuts entering the GOT. Not doing so can cause a fire, failure or malfunction. • The module has an ingress prevention label on its top to prevent foreign matter, such as wire offcuts, from entering the module during wiring. Do not peel this label during wiring. Before starting system operation, be sure to peel this label because of heat dissipation. (GT27,GT25 Only) • Plug the communication cable into the GOT interface or the connector of the connected unit, and tighten the mounting screws and the terminal screws in the specified torque range. Undertightening can cause a short circuit or malfunction. Overtightening can cause a short circuit or malfunction due to the damage of the screws or unit.

Plug the QnA/ACPU/Motion controller(A series) bus connection cable by inserting it into the connector of the connected unit until it "clicks".
 After plugging, check that it has been inserted snugly.
 Not doing so can cause a malfunction due to a contact fault.(GT27,GT25 Only)

[TEST OPERATION PRECAUTIONS]

• Before testing the operation of a user-created monitor screen (such as turning on or off a bit device, changing the current value of a word device, changing the set value or current value of a timer or counter, and changing the current value of a buffer memory), thoroughly read the manual to fully understand the operating procedures.

During the test operation, never change the data of the devices which are used to perform significant operation for the system.

False output or malfunction can cause an accident.

[STARTUP/MAINTENANCE PRECAUTIONS]

- When power is on, do not touch the terminals. Doing so can cause an electric shock or malfunction.
- Correctly connect the battery connector.
 Do not charge, disassemble, heat, short-circuit, solder, or throw the battery into the fire.
 Doing so will cause the battery to produce heat, explode, or ignite, resulting in injury and fire.
- Before starting cleaning or terminal screw retightening, always switch off the power externally in all phases.

Not switching the power off in all phases can cause a unit failure or malfunction. Undertightening can cause a short circuit or malfunction.

Overtightening can cause a short circuit or malfunction due to the damage of the screws or unit.

[STARTUP/MAINTENANCE PRECAUTIONS]

- Do not disassemble or modify the unit. Doing so can cause a failure, malfunction, injury or fire.
- Do not touch the conductive and electronic parts of the unit directly. Doing so can cause a unit malfunction or failure.
- The cables connected to the unit must be run in ducts or clamped. Not doing so can cause the unit or cable to be damaged due to the dangling, motion or accidental pulling of the cables or can cause a malfunction due to a cable connection fault.
- When unplugging the cable connected to the unit, do not hold and pull from the cable portion. Doing so can cause the unit or cable to be damaged or can cause a malfunction due to a cable connection fault.
- Do not drop the module or subject it to strong shock. A module damage may result.
- Do not drop or give an impact to the battery mounted to the unit.
 Doing so may damage the battery, causing the battery fluid to leak inside the battery.
 If the battery is dropped or given an impact, dispose of it without using.
- Before touching the unit, always touch grounded metals, etc. to discharge static electricity from human body, etc.

Not doing so can cause the unit to fail or malfunction.

- Use the battery manufactured by Mitsubishi Electric Corporation. Use of other batteries may cause a risk of fire or explosion.
- Dispose of used battery promptly. Keep away from children.Do not disassemble and do not dispose of in fire.
- Be sure to shut off all phases of the external power supply before replacing the battery or using the dip switch of the terminating resistor. Not doing so can cause the unit to fail or malfunction by static electricity.

[TOUCH PANEL PRECAUTIONS]

• For the analog-resistive film type touch panels, normally the adjustment is not required. However, the difference between a touched position and the object position may occur as the period of use elapses.

When any difference between a touched position and the object position occurs, execute the touch panel calibration.

• When any difference between a touched position and the object position occurs, other object may be activated.

This may cause an unexpected operation due to incorrect output or malfunction.

[PRECAUTIONS WHEN THE DATA STORAGE IS IN USE]

• If the SD card is removed from drive A of the GOT while being accessed by the GOT, the GOT may stop processing data for about 20 seconds.

The GOT cannot be operated during this period.

The functions that run in the background including a screen updating, alarm, logging, scripts, and others are also interrupted.

Remove the SD card after checking the following items.

- GT27,GT25,GT23 After checking the light off of SD card access LED, remove the SD card.
- GT21

After disabling SD card access on the utility screen of the GOT and checking that the SD card access LED is off, remove the SD card.

• If the data storage is removed from the GOT while being accessed by the GOT, the data storage and files may be damaged.

Before removing the data storage from the GOT, check the SD card access LED, system signal, or others to make sure that the data storage is not accessed.

- Turning off the GOT while it accesses the SD card results in damage to the SD card and files.
- When using the GOT with an SD card inserted, check the following items.
 - GT27,GT25,GT23

When inserting a SD card into the GOT, make sure to close the SD card cover.

Failure to do so causes the data not to be read or written.

• GT21

When using an SD card connected to the SD card unit or the GOT, enable the SD card access in the GOT utility in advance.

- Failure to do so causes the data not to be read or written.
- When removing the SD card from the GOT, make sure to support the SD card by hand as it may pop out.

Failure to do so may cause the SD card to drop from the GOT, resulting in a failure or break.

• When inserting a USB device into a USB interface of the GOT, make sure to insert the device into the interface firmly.

Failure to do so may cause the USB device to drop from the GOT, resulting in a failure or break.

• Before removing the USB device from the GOT, follow the procedure for removal on the utility screen of the GOT.

After the successful completion dialog is displayed, remove the USB device by hand carefully. Failure to do so may cause the USB device to drop from the GOT, resulting in a failure or break.

[PRECAUTIONS FOR REMOTE CONTROL]

• Remote control is available through a network by using GOT functions, including theSoftGOT-GOT link function, the remote personal computer operation function, the VNC server function, and the GOT Mobile function.

If these functions are used to perform remote control of control equipment, the field operator may not notice the remote control, possibly leading to an accident.

In addition, a communication delay or interruption may occur depending on the network

environment, and remote control of control equipment cannot be performed normally in some cases. Before using the above functions to perform remote control, fully grasp the circumstances of the field site and ensure safety.

[Precautions for Exclusive Authorization Control]

Make sure to fully understand the GOT network interaction function before using this function to control the authorization among pieces of equipment to prevent simultaneous operations. The exclusive authorization control of the GOT network interaction function can be enabled or disabled for each screen. (For all screens, the exclusive authorization control is disabled by default.) Properly determine the screens for which the exclusive authorization control is required, and set the control by screen.

A screen for which the exclusive authorization control is disabled can be operated simultaneously from pieces of equipment. Make sure to determine the operation period for each operator, fully grasp the circumstances of the field site, and ensure safety to perform operations.

[DISPOSAL PRECAUTIONS]

 When disposing of this product, treat it as industrial waste.
 When disposing of batteries, separate them from other wastes according to the local regulations. (Refer to GOT2000 Series User's Manual (Hardware) for details of the battery directive in the EU member states.)

[TRANSPORTATION PRECAUTIONS]

- When transporting lithium batteries, make sure to treat them based on the transport regulations. (Refer to GOT2000 Series User's Manual (Hardware) for details of the regulated models.)
- Make sure to transport the GOT main unit and/or relevant unit(s) in the manner they will not be exposed to the impact exceeding the impact resistance described in the general specifications of this manual, as they are precision devices.
 Failure to do so may cause the unit to fail.

Check if the unit operates correctly after transportation.

• When fumigants that contain halogen materials such as fluorine, chlorine, bromine, and iodine are used for disinfecting and protecting wooden packaging from insects, they cause malfunction when entering our products.

Please take necessary precautions to ensure that remaining materials from fumigant do not enter our products, or treat packaging with methods other than fumigation (heat method). Additionally, disinfect and protect wood from insects before packing products.

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REVISIONS

WA	RR /	۱NTY
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List of Manuals for GT Works3

For the manuals related to this product, install the manuals with the drawing software. If you need a printed manual, consult your local Mitsubishi representative or branch office.

■1. List of Manuals for GT Designer3(GOT2000)

(1) Screen drawing software manuals

Manual name	Manual number (Model code)	Format
GT Works3 Version1 Installation Procedure Manual	-	PDF
GT Designer3 (GOT2000) Screen Design Manual SH-081220ENG (1D7ML9) PDF, e-M		PDF, e-Manual
GT Converter2 Version3 Operating Manual for GT Works3	SH-080862ENG (1D7MB2)	PDF
GOT2000 Series MES Interface Function Manual for GT Works3 Version1	SH-081228ENG	PDF

(2) Connection manuals

Manual name	Manual number (Model code)	Format
GOT2000 Series Connection Manual (Mitsubishi Products) For GT Works3 Version1	SH-081197ENG (1D7MJ8)	PDF
GOT2000 Series Connection Manual (Non-Mitsubishi Products 1) For GT Works3 Version1	SH-081198ENG	PDF
GOT2000 Series Connection Manual (Non-Mitsubishi Products 2) For GT Works3 Version1	SH-081199ENG	PDF
GOT2000 Series Connection Manual (Microcomputers, MODBUS/Fieldbus Products, Peripherals) For GT Works3 Version1	SH-081200ENG	PDF

(3) GT SoftGOT2000 manuals

Manual name	Manual number (Model code)	Format
GT SoftGOT2000 Version1 Operating Manual	SH-081201ENG	PDF

(4) GOT2000 manuals

Manual name	Manual number (Model code)	Format
GOT2000 Series User's Manual (Hardware)	SH-081194ENG (1D7MJ5)	PDF, e-Manual
GOT2000 Series User's Manual (Utility) SH-081195ENG (1D7MJ6) PDF, e		PDF, e-Manual
GOT2000 Series User's Manual (Monitor)	SH-081196ENG (1D7MJ7)	PDF, e-Manual

POINT,

e-Manual

e-Manual refers to the Mitsubishi FA electronic book manuals that can be browsed using a dedicated tool.

e-Manual has the following features:

- Required information can be cross-searched in multiple manuals.
- Other manuals can be accessed from the links in the manual.
- Hardware specifications of each part can be found from the product figures.
- Pages that users often browse can be bookmarked.

Abbreviations, Generic Terms, Meanings of Icons

The following shows the abbreviations, generic terms, and meanings of icons used in this manual.

∎1. GOT

					Meaning	g of icon
Abbreviations and generic terms		terms	Description		Not support	
		GT27-X	GT2715-X	GT2715-XTBA, GT2715-XTBD	^{ст} 27	^{GT} 27
		GT27-S	GT2712-S	GT2712-STBA, GT2712-STWA, GT2712-STBD, GT2712-STWD	27	27
		6127-5	GT2710-S	GT2710-STBA, GT2710-STBD		
	GT27	GT27-V	GT2710-V	GT2710-VTBA, GT2710-VTWA, GT2710-VTBD, GT2710-VTWD		
		GT27-S	GT2708-S	GT2708-STBA, GT2708-STBD		
		GT27-V	GT2708-V	GT2708-VTBA, GT2708-VTBD		
		G127-V	GT2705-V	GT2705-VTBD		
		GT25 S	GT2512-S	GT2512-STBA, GT2512-STBD	^{GT} 25	ст 25
		0125-5	GT2512F-S	GT2512F-STNA, GT2512F-STND	25	25
	GT25-S GT2512F-S GT2512F-STNA, GT2512F-STND GT25 GT2510-V GT2510-VTBA, GT2510-VTWA, GT2510-VTBD, GT2510-VTWD GT25-V GT2510F-V GT2510F-VTNA, GT2510F-VTND GT2508-V GT2508-V GT2508-VTBA, GT2508-VTWA, GT2508-VTWD, GT2508-VTWD GT23 GT2310-V GT2310-VTBA, GT2310-VTBD GT2308-V GT2308-V GT2308-V GT2308-VTBA, GT2308-VTBD GT2 All GT21 models GT2145_0TBD0 GT2 GT2					
GT25-V GT2510F-V GT2510F-VTNA, GT25	GT2510F-VTNA, GT2510F-VTND					
		G125-V	GT2508-V	GT2508-VTBA, GT2508-VTWA, GT2508-VTBD, GT2508-VTWD		
			GT2508F-V	GT2508F-VTNA, GT2508F-VTND		
	GT23	GT23-V	GT2310-V	GT2310-VTBA, GT2310-VTBD	^{GT} 23	GT
	0120	0120-0	GT2308-V	GT2308-VTBA, GT2308-VTBD	23	23
				All GT21 models	21 GT 21	^{GT} 21
		0704.0	070/07-0	GT2105-QTBDS	^{ст} о5Q 21	GT _{05Q}
		GI21-Q	GT2105-Q	GT2105-QMBDS	- 21	GT 23 GT 21 GT 2 GT 2
GOT2000 Series		GT21-R	GT2104-R	GT2104-RTBD	^{gt} ₀4r 21	^{gt} 04r 21
	GT21				GT2104-PMBD	^{GT} 03Р 21 04Р ET/R4
				GT2104-P	GT2104-PMBDS	^{GT} 03Р 21 04Р R4
		21	0121041	GT2104-PMBDS2	^{GT} 03Р 21 04Р R2	GT _{03P} 21 04P R2
		GT21-P		GT2104-PMBLS	GT _{03Р} 21 04Р R4-5V	бт _{озр} 21 04р R4-5V
		01211		GT2103-PMBD	GT _{03Р} 21 04Р ET/R4	GT 21 04P ET/R4
			GT2103 P	GT2103-PMBDS	^{GT} 03Р 21 04Р R4	^{GT} 03Р 21 04Р R4
		GT2103-P	G12103-P	GT2103-PMBDS2	^{GT} 03Р 21 04Р R2	GT _{03P} 2104P R2
				GT2103-PMBLS	^{GT} 03Р 21 04Р R4-5V	GT _{03P} 21 04P R4-5V
	GT Soft	GOT2000		GT SoftGOT2000 Version1	Soft GOT 2000	Soft GOT 2000

2. Communication unit

Abbreviations and generic terms	Description
Bus connection unit	GT15-QBUS, GT15-QBUS2, GT15-ABUS, GT15-ABUS2, GT15-75QBUSL, GT15-75QBUS2L, GT15-75ABUS2L
Serial communication unit	GT15-RS2-9P, GT15-RS4-9S, GT15-RS4-TE
MELSECNET/H communication unit	GT15-J71LP23-25, GT15-J71BR13
CC-Link IE Controller Network communication unit	GT15-J71GP23-SX
CC-Link IE Field Network communication unit	GT15-J71GF13-T2
CC-Link communication unit	GT15-J61BT13
Wireless LAN communication unit	GT25-WLAN
Serial multi-drop connection unit	GT01-RS4-M
Connection conversion adapter	GT10-9PT5S
Field network adapter unit	GT25-FNADP
Ethernet communication unit	GT25-J71E71-100

■3. Option unit

A	Abbreviations and generic terms	Description
Printer unit		GT15-PRN
	Video input unit	GT27-V4-Z (A set of GT16M-V4-Z and GT27-IF1000)
Video/RGB unit	RGB input unit	GT27-R2, GT27-R2-Z (A set of GT16M-R2-Z and GT27-IF1000)
VIGEO/RGB UTIL	Video/RGB input unit	GT27-V4R1-Z (A set of GT16M-V4R1-Z and GT27-IF1000)
	RGB output unit	GT27-ROUT, GT27-ROUT-Z (A set of GT16M-ROUT-Z and GT27-IF1000)
Multimedia unit		GT27-MMR-Z (A set of GT16M-MMR-Z and GT27-IF1000)
Video signal conver	rsion unit	GT27-IF1000
External I/O unit		GT15-DIO, GT15-DIOR
Sound output unit		GT15-SOUT
SD card unit		GT21-03SDCD

■4. Option

Abbreviations and generic terms	Description
SD card	NZ1MEM-2GBSD, NZ1MEM-4GBSD, NZ1MEM-8GBSD, NZ1MEM-16GBSD, L1MEM-2GBSD, L1MEM-4GBSD
Battery	GT11-50BAT
Protective sheet	GT27-15PSGC, GT25-12PSGC, GT25-10PSGC, GT25-08PSGC, GT25- 05PSGC, GT21-05PSGC, GT21-04RPSGC-UC, GT21-03PSGC-UC, GT21- 04PSGC-UC, GT27-15PSCC, GT25-12PSCC, GT25-10PSCC, GT25- 08PSCC, GT25-12PSCC-UC, GT25-10PSCC-UC, GT25-08PSCC-UC, GT25- 05PSCC, GT21-05PSCC-UC, GT21-04RPSCC-UC, GT21-04PSCC- UC, GT21-03PSCC-UC
Environmental protection sheet	GT25F-12ESGS, GT25F-10ESGS, GT25F-08ESGS
Protective cover for oil	GT20-15PCO, GT20-12PCO, GT20-10PCO, GT20-08PCO, GT25-05PCO, GT21-04RPCO, GT10-30PCO, GT10-20PCO, GT05-50PCO
USB environmental protection cover	GT25-UCOV, GT25-05UCOV
Stand	GT15-90STAND, GT15-80STAND, GT15-70STAND, GT15-60STAND, GT05- 50STAND
Attachment	GT15-70ATT-98, GT15-70ATT-87, GT15-60ATT-97, GT15-60ATT-96, GT15- 60ATT-87, GT15-60ATT-77

∎5. Software

(1) Software related to GOT

Abbreviations and generic terms	Description
GT Works3	SW1DND-GTWK3-J, SW1DND-GTWK3-E, SW1DND-GTWK3-C
GT Designer3 Version1	Screen drawing software GT Designer3 for GOT2000/GOT1000 series
GT Designer3	Screen drawing software for GOT2000 series included in GT Works3
GT Designer3 (GOT2000)	
GT Designer3 (GOT1000)	Screen drawing software for GOT1000 series included in GT Works3
GT Simulator3	Screen simulator GT Simulator3 for GOT2000/GOT1000/GOT900 series
GT SoftGOT2000	Monitoring software GT SoftGOT2000 series
GT Converter2	Data conversion software GT Converter2 for GOT1000/GOT900 series
GT Designer2 Classic	Screen drawing software GT Designer2 Classic for GOT900 series
GT Designer2	Screen drawing software GT Designer2 for GOT1000/GOT900 series
DU/WIN	Screen drawing software FX-PCS-DU/WIN for GOT-F900 series

(2) Software related to iQ Works

Abbreviations and generic terms	Description				
iQ Works	Abbreviation of iQ Platform compatible engineering environment MELSOFT iQ Works				
MELSOFT Navigator	Generic term for integrated development environment software included in the SW DNC-IQWK (iQ Platform compatible engineering environment MELSOFT iQ Works) (□ indicates a version.)				
MELSOFT iQ AppPortal	SWDND-IQAPL-M type integrated application management software (indicates a version.)				

(3) Other software

Abbreviations and generic terms		Description
GX Works3		SWDND-GXW3-E (-EA) type programmable controller engineering software (Didicates a version.)
GX Works2		SWDDNC-GXW2-D type programmable controller engineering software (D indicates a version.)
	GX Simulator3	Simulation function of GX Works3
	GX Simulator2	Simulation function of GX Works2
Controller simulator	GX Simulator	SWDD5C-LLT-E (-EV) type ladder logic test tool function software package (SW5D5C-LLT (-V) or later versions) (D indicates a version.)
GX Developer		SW□D5C-GPPW-E (-EV)/SW□D5F-GPPW (-V) type software package (□ indicates a version.)
GX LogViewer		SW□DNN-VIEWER-E type software package (□ indicates a version.)
PX Developer		SWDD5C-FBDQ-E type FBD software package for process control (indicates a version.)
MT Works2		Motion controller engineering environment MELSOFT MT Works2(SW□DND- MTW2-E) (□ indicates a version.)
MT Developer		SW□RNC-GSV type integrated start-up support software for motion controller Q series (□ indicates a version.)
CW Configurator		C Controller module configuration and monitor tool (SW1DND-RCCPU-E) (indicates a version.)
MR Configurator2		SWDDNC-MRC2-E type servo configuration software (D indicates a version.)
MR Configurator		MRZJW□-SETUP type servo configuration software (□ indicates a version.)
FR Configurator		Inverter setup software (FR-SW□-SETUP-WE) (□ indicates a version.)
NC Configurator2		CNC parameter setting support tool (FCSB1221)
NC Configurator		CNC parameter setting support tool
FX Configurator-FP		Parameter setting, monitoring, and testing software packages for FX3U- 20SSC-H (SW□D5CFXSSCE) (□ indicates a version.)
FX3U-ENET-L Configuration tool		FX3U-ENET-L type Ethernet module setting software (SW1D5-FXENETL-E)
RT ToolBox2		Robot program creation software (3D-11C-WINE)
MX Component		MX Component Version (SW D5C-ACT-E, SW D5C-ACT-EA) (indicates a version.)
MX Sheet		MX Sheet Version□(SW□D5C-SHEET-E, SW□D5C-SHEET-EA) (□ indicates a version.)
CPU Module Logging	Configuration Tool	CPU module logging configuration tool (SW1DNN-LLUTL-E)

■6. License key (for GT SoftGOT2000)

Abbreviations and generic terms	Description
License key	GT27-SGTKEY-U

∎7. Others

Abbreviations and generic terms	Description
IAI	IAI Corporation
AZBIL	Azbil Corporation
OMRON	OMRON Corporation
KEYENCE	KEYENCE CORPORATION
KOYO EI	KOYO ELECTRONICS INDUSTRIES CO., LTD.
JTEKT	JTEKT Corporation
SHARP	Sharp Manufacturing Systems Corporation
SHINKO	Shinko Technos Co., Ltd.
CHINO	CHINO CORPORATION
TOSHIBA	TOSHIBA CORPORATION
TOSHIBA MACHINE	TOSHIBA MACHINE CO., LTD.
PANASONIC	Panasonic Corporation
PANASONIC IDS	Panasonic Industrial Devices SUNX Co., Ltd.
HITACHI IES	Hitachi Industrial Equipment Systems Co., Ltd.
HITACHI	Hitachi, Ltd.
FUJI	FUJI ELECTRIC CO., LTD.
YASKAWA	YASKAWA Electric Corporation
YOKOGAWA	Yokogawa Electric Corporation
RKC	RKC INSTRUMENT INC.
ALLEN-BRADLEY	Allen-Bradley products manufactured by Rockwell Automation, Inc.
CLPA	CC-Link Partner Association
GE	GE Intelligent Platforms, Inc.
HMS	HMS Industrial Networks
LS IS	LS Industrial Systems Co., Ltd.
MITSUBISHI INDIA	Mitsubishi Electric India Pvt. Ltd.
ODVA	Open DeviceNet Vendor Association, Inc.
SCHNEIDER	Schneider Electric SA
SICK	SICK AG
SIEMENS	Siemens AG
PLC	Programmable controller manufactured by each corporation
Control equipment	Control equipment manufactured by each corporation
Temperature controller	Temperature controller manufactured by each corporation
Indicating controller	Indicating controller manufactured by each corporation
Controller	Controller manufactured by each corporation

PART 1

UTILITY FOR GT27/GT25/GT23

1.	UTILITY FUNCTION 1 - 1
2.	GOT BASIC SETTING 2 - 1
3.	EXTENDED FUNCTION SETTING
4.	MAINTENANCE 4 - 1
5.	MONITOR 5 - 1
6.	DATA CONTROL
7.	INSTALLATION OF BOOTOS AND BASIC SYSTEM
	APPLICATION
8.	SYSTEM ALARM DISPLAY AND LIST



-	

UTILITY FUNCTION

1. UTILITY FUNCTION

Utility is a function, which carries out connection of GOT and controller, screen display and operation method settings, program/data control and self-check etc.

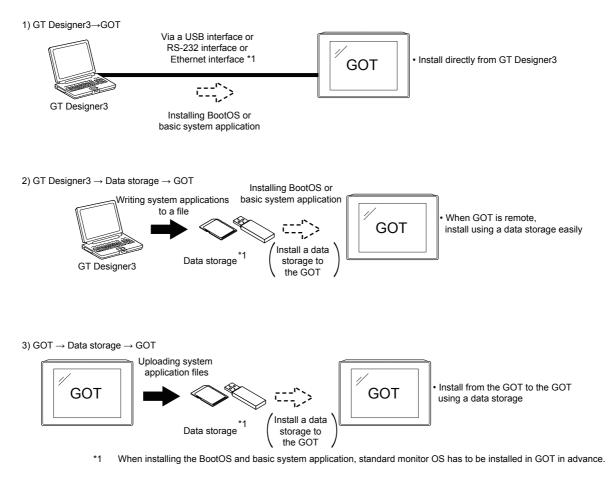
Refer to the following for the utility function list.

➡ 1.2 Utility Function List

1.1 Utility Execution

For utility execution, utility has to be displayed by installing BootOS and basic system application in the C drive (built in flash memory).

There are following three types for the installing BootOS and basic system application methods.



Refer to the following for the installation which uses GT Designer3.

Honora (GOT2000) Screen Design Manual

Refer to the following for the installation which uses GOT.

➡ 7. INSTALLATION OF BOOTOS AND BASIC SYSTEM APPLICATION

1.2 Utility Function List

The items in the following list can be set/operated on the utility screens.

For GT Designer3 of an old version, displayed screens, setting items and others may differ from those described in the manual.

The sequence program monitor (R ladder) will be supported soon.

		F	Applicable GOT			D. (
	Item			Functions overview	GT27	GT25	GT23	Reference
				Setting the startup screen display time and screen saving time	0	0	0	
				Setting the battery alarm display to ON or OFF	0	0	0	
	Display			Setting the detect level/detect time of human sensor	0	×	×	2.1
				Adjusting brightness	0	0	0	
	Language			Switching message languages	0	0	0	2.2
	Unique inform	ation		Setting the GOT ID number	0	0	0	2.3
	IP address			Setting the GOT IP address, subnet mask, and default gateway Setting the GOT operation when a device with the same IP address as that of the GOT is added to the network afterwards.	0	0	0	2.4
	IP filter setting]		Setting IP addresses from which access to the GOT is allowed or blocked	0	0	0	2.5
	Operation			Setting the buzzer volume and window move buzzer Setting a musical interval for the buzzer sound*4 Setting the key sensitivity and key reaction speed Setting the access switch for the drive A	0	0	0	2.6
GOT basic setting	Utility call key			Setting the utility call keys	0	0	0	2.7
ootting	USB host			Setting the USB mouse/keyboard	0	0	0	2.8
	Time			Displaying and setting the clock current time	0	0	0	2.9
	Controller	Assign Ether	net I/F	Setting the assign Ethernet I/F	0	0	0	
		Channel - Dr	iver assign	Displaying the communication driver assigned to each channel	0	0	0	
			Changing assignmen t	Changing the assigned communication driver	0	0	0	2.10
		5 V power su	ipply	Setting 5 V power supply for channel No. 1	0	0	×	
		Communicat setting	ion detail	Setting communication parameters, setting or deleting sequence program protection key words, canceling sequence program protection status (When connecting to FX series CPU)	0	0	0	
	Ethernet com	Ethernet communication		Displaying the contents of Ethernet setting, changing the host	0	0	0	2.11
	Transparent m	node		Setting the channel No. to be used for the communication for the FA transparent function	0	0	0	2.12
	Security	Security level authenticati on		Authenticating security levels	0	0	0	2.13

Item		Functions overview	App	olicable G	OT	Deference		
Ren			GT27	GT25	GT23	Reference		
		Operator ma	nagement	Managing operator	0	0	0	
Maintenance	Operator authenticatio n	Password ch	ange	Changing a password	0	0	0	2.14
		Function sett	ing	Setting the operator authentication function	0	0	0	
	SoftGOT-GOT	link function		Setting the SoftGOT-GOT link function	0	0	\times	3.1
	VNC server fu	nction		Setting the VNC server function	0	0	×	3.2
	Sequence proc	gram monitor		Starting the sequence program monitor	0	0	×	3.3
	Backup/restora	ation setting		Setting the backup and restoration	0	0	0	3.4
		Trigger back	up setting	Setting the trigger backup	0	0	0	
			Trigger time setting	Setting the trigger time	0	0	0	3.5
Extended	License manag	gement		Displaying the screen for registering and releasing the license	0	0	×	3.6
function setting	Video/RGB			Displaying the screen for setting the video/ RGB I/O unit	○ *3	×	×	3.7
	Multimedia			Displaying the screen for setting the multimedia	○ *3	\times	×	3.8
	Wireless LAN connection function			Setting the wireless LAN connection function	0	0	×	3.9
	System launcher			Configuring a setting to enable the online module change in the system launcher function	0	0	0	3.10
	iQSS utility			Setting a drive for a data storage containing the profile data of iQSS-compatible equipment	0	0	\times	3.11
	ANDON connection			Setting the IP address of a client targeted for the ANDON connection	0	0	×	3.12
	Batch self check			Executing various diagnostics collectively and copying the result to a data storage	0	0	0	4.1
	USB device management			Displaying the status of USB device	0	0	0	4.2
	Cleaning			Displaying the screen for cleaning the display	0	0	0	4.3
	Touch panel calibration			Adjusting the touch panel	0	0	0	4.4
	System alarm			Displaying the system alarm	0	0	0	4.5
Maintenance	Drawing check	{		Checking the drawing	0	0	0	4.6
	Font check			Checking the font	0	0	0	4.7
	Touch panel check			Checking the touch panel	0	0	0	4.8
	I/O check			Checking the I/O of RS-232 interface	0	0	0	4.9
	Ethernet status	s check		Checking the connection status of Ethernet	0	0	0	4.10
	GOT information	on		Displaying the GOT information	0	0	0	4.11
	GOT Mobile in	formation		Displaying the GOT Mobile function settings	0	0	×	4.12

Item		Functions overview	Applicable GOT			Reference
			GT27	GT25	GT23	Reference
	System launcher	Starting the system launcher	0	0	0	
	Device monitor	Starting the device monitor	0	0	0	
	Sequence program monitor	Starting the QCPU or LCPU sequence program monitor	0	0	×	
	Sequence program monitor (R ladder)	Starting the RCPU sequence program monitor	0	0	×	
	FX ladder monitor	Starting the FX ladder monitor	0	0	×	
	Network monitor	Starting the network monitor	0	0	×	
	Intelligent module monitor	Starting the intelligent module monitor	0	0	×	
	Servo amplifier monitor	Starting the servo amplifier monitor	0	0	\times	
	Q motion monitor	Starting the Q motion monitor	0	0	×	
	R motion monitor	Starting the R motion monitor	0	0	×	
	CNC monitor	Starting the CNC monitor	○ *1	○ *2	×	
Monitor	CNC monitor 2	Starting the CNC monitor 2	○ *1	○ *2	×	5.1
Monitor	Sequence program monitor (SFC)	Starting the SFC monitor	0	0	×	0.1
	Motion SFC monitor	Starting the motion SFC monitor	0	0	×	
	Log viewer	Starting the log viewer	0	0	×	1
	Network status display	Starting the network status display	0	0	×	
	FX list editor	Starting the FX list editor	0	0	×	
	CNC machining program edit	Starting the CNC machining program edit	○ *1	○ *2	×	
	CNC data I/O	Starting the CNC data I/O	O *1	○ *2	×	
	Motion Program Editor	Starting the motion program editor	○ *1	○ *2	×	
	Motion Program I/O	Starting the motion program I/O	○ *1	○ *2	×	
	MELSEC-L troubleshooting	Starting the MELSEC-L troubleshooting	0	0	×	
	iQSS utility	Starting the iQSS utility	0	0	×	1
	Drive recorder	Starting the drive recorder	0	0	×	1

ltem		Functions overview	App	GOT	Reference	
		Functions overview	GT27	GT25	GT23	Relefence
		Deleting or copying alarm log files	0	0	0	
	Alarm information	Converting alarm log files in G2A format \rightarrow CSV/TXT format	0	0	0	6.2
	Image file management	Deleting/copying image files, changing image file names	0	0	0	6.3
	Recipe information	Converting recipe files in G2P \rightarrow CSV/TXT format, deleting/copying/moving/creating recipe files, deleting/moving/changing recipe folder names, writing/reading/verifying record values with the recipe record list, deleting device values	0	0	0	6.4
		Converting logging files in G2L format \rightarrow CSV/ TXT format	0	0	0	6.5
	Logging information	Deleting/copying/moving logging files, changing logging file names	0	0	0	6.5
5.4	Operation log information	Converting operation log files in G20 \rightarrow CSV/ TXT format	0	0	0	
Data management		Deleting, copying, moving, or renaming an operation log file, deleting or creating an operation log folder	0	0	0	6.6
	File manager	Deleting, copying, moving or renaming a folder or file, sorting the list of folders and files, or creating a folder	0	0	0	6.7
	Package data management	Installing/uploading package data, checking the property	0	0	0	6.8
	Backup/restoration	Starting the backup/restoration function	0	0	0	6.9
	SRAM management	Confirming the SRAM user area usage, backing up or restoring the data in the SRAM user area, and initializing the SRAM user area	0	0	0	6.10
	Memory card format	Formatting a data storage	0	0	0	6.11
	Memory check	Write/read check of a data storage and built-in flash memory	0	0	0	6.12
	GOT data package acquisition	Copying the data stored in the GOT to an SD card in a batch	0	0	0	6.13

Available to GT27-X and GT27-S. *1

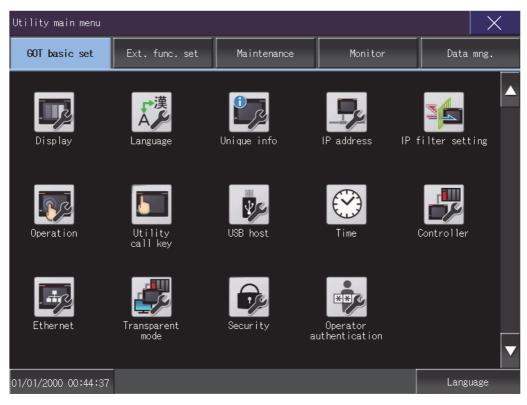
*2

Only available to GT25-S. GT2705-V does not support. *3

*4 Not available to GT23. UTILITY FUNCTION

1.3 Utility display

To display each setting screen of the utility, the main menu has to be displayed first. Even when the GOT is installed vertically, the utility screen appears horizontally.. In the utility main menu, message dialogs appear according to the vertical installation.



1) Main menu

The menu items that can be set at the GOT utility are displayed. Touching a menu item in the main menu will display the setting screen or following selection screen for the item.

2) System message switch button

This button switches the language used for the utility or system alarms. When touching the Language button, the Select Language screen is displayed.

Language				2
	日本語			
▶	English			
	中文(简体)			
_	한국어			
	240			
			OK	Cance1

- Step 1. Touch the button of the language to be displayed.
- Step 2. Touching the [OK] button restarts the GOT and the language on the utility is switched to the selected one. If touch the [Cancel] button, the changed settings are canceled and the screen returns to the Main Menu.

POINT

When starting the GOT without selecting any language or the selected language and the installed fonts are not matched

The following screen will be displayed.

Touching the button of a desired language restarts the GOT and the language is switched to the selected one.



(1) Selectable languages

The system message switch button is displayed only for the selectable languages. The selectable languages differ depending on the fonts installed in the GOT. For the relation between the selectable languages and the fonts, refer to the following.

GT Designer3 (GOT2000) Screen Design Manual

(2) System language switching using the device

The system language can be switched using the system language switching device set with GT Designer3.

For the setting method of the system language switching device, refer to the following.

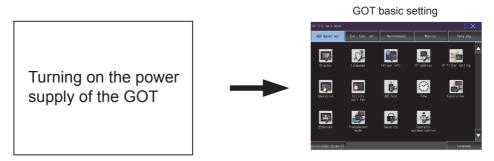
GT Designer3 (GOT2000) Screen Design Manual

1.3.1 Display operation of main menu

The following three types of operation can display the main menu. (Display the main menu after installing the basic system application from GT Designer3 to the GOT built in flash memory.)

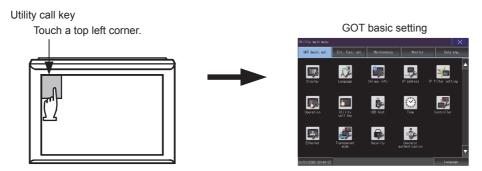
■1. When project data is undownloaded

If the power supply of GOT turns ON, the main menu is displayed automatically after title display.



■2. When touching menu call key

If you touch the menu call key while user-created screen is displayed, the main menu is displayed. The menu call key is set in the position on the GOT screen upper left corner at factory shipment.



The menu call key can be set by the GOT utility or GT Designer3. For the setting method of the utility call key, refer to the following.

- ➡ 2.7.3 Utility call key setting operation
- GT Designer3 (GOT2000) Screen Design Manual

POINT

(1) Prohibited simultaneous 2-point presses

Do not touch 2 points or more on the GOT screen simultaneously. Touching 2 points or more simultaneously may activate a part other than the touched point.

(2) When setting menu call key to 1-point

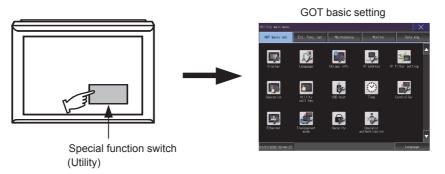
When having set [Pressing time] of the menu call key setting screen to other than "0 (s)", keep pressing the touch panel for the period set to [Pressing time] or more before leaving the finger from the touch panel.

For menu call key setting, refer to the following.

➡ 2.7.3 Utility call key setting operation

■3. When touching special function switch (utility)

If you touch the special function switch (utility) while user-created screen is displayed, the main menu is displayed. The special function switch (utility) can be set as a touch switch that is displayed on a user-created screen by GT Designer3.



For the details of the special function switch, refer to the following.

GT Designer3 (GOT2000) Screen Design Manual

POINT

Locking the utility display by password

When you try to display the utility main menu while the password is set to the GOT by GT Designer3, the display for password input will be appeared. (Set a password from the common setting menu.)

[60] setup:Operation:Security setting:Security level change Please input password.	×
7 8 9 A B 4 5 6 C D 1 2 3 E F 0 AC Del Enter	

When the password is not matched, displays the error message.

The password is wrong.	
OK	

When touching the [OK] button, the screen returns to the monitor screen.

(1) Input operation of password

Step 1. Input the password after touching [0] to [9], [A] to [F] key.

- Step 2. Define the password by touching [Enter] key, after password input.
- Step 3. To correct the input character, touch [Del] key to delete the correcting character and reinput/retype the new character.

(2) Password input cancel operation

When the \bowtie button is touched, it returns to the monitor screen.

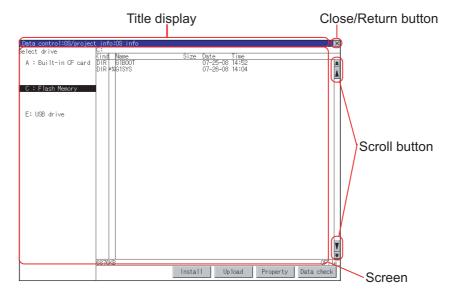
Refer to the following for the details related to the password setting.

GT Designer3 (GOT2000) Screen Design Manual

UTILITY FUNCTION

1.3.2 Utility basic configuration

The basic configuration of utility is as follows.



■1. Title display

The screen title name is displayed in title display part. As the screen is composed of multiple layers, the title including these layers is displayed.

GOT setup:Operation		\times
Buzzer volume	OFF Title display	
Window move buzzer	OFF	
Security setting	Setting	
Utility call key	Setting	
Utility call key		×
Please select	keys.	
Pressing tim		
5 SEC.		

■2. Close/Return button

When a middle screen of the layers is displayed, if the \bigcirc (Close/return) button in the right corner of screen is touched, returns to the previous screen.

If this button is touched when directly displayed from monitor screen, the screen is closed and returns to monitor screen.

■3. Scroll button

For screens in which the content does not fit on one screen page, there is a right or down scroll button on the screen. $| \mathbf{A} | \mathbf{V} / \mathbf{A} / \mathbf{V} |$ Scroll one line/column.

★↓/**↓**/ Scroll window.

1.3.3 Basic operation of settings change

■1. Change of setting value

GOT setup:Operation Buzzer volume	OFF	
Window move buzzer		Close/Return button
Security setting Utility call key	Setting	
Key sensitivity	6 (Max 8)	`
Key reaction speed Touch panel calibratio	Standard (±0)ms	\backslash
Touch detection mode	Avoid input err	or
USB mouse/keyboard SoftGOT-GOT link	Setting Setting	Select button
	Setting ite	em
		0K Cancel

Example: [Operation] screen

(1) Setting item, select button

Touch the select button to change the settings. The setting methods differ depending on the setting items. The following types of setting method are available.

(a) Switching the setting value

Touch the button to switch the setting value as shown in ON OFF.

(b) Enter the setting value with a keyboard. Touch the button to display a keyboard on the GOT screen.

(c) Move to another setting screen. Touch the button to move to another setting screen.

For the setting method of each setting item, refer to the setting operation of each setting screen.

(2) [OK] button, [Cancel] button, 🖂 (Close/Return) button

Reflect or cancel the changed settings.

• [OK] button

Touch this button to reflect the changed settings and return to the previous screen. Depending on the setting item, the GOT restarts.

• [Cancel] button

Touch this button to cancel the changed settings and return to the previous screen.

• 🔀 (Close/Return) button

Touching the button displays the following dialog. (If no setting is changed, the dialog is not displayed.) Operate following the message of the dialog.

Settings have been chan Do you want to discard	
0 К	Cancel

2. GOT BASIC SETTING

Setting screen for display and setting screen for operation can be displayed from the GOT utility screen. In the setting screen for display and the setting screen for operation, the following settings can be set.

	Item	Description	Reference			
Display		Opening screen time, screen save time, battery alarm display, human sensor, sensor detect level, sensor detect time, sensor off delay, brightness adjustment mode, brightness adjustment, POWER LED	2.1			
Language)	Language setting	2.2			
Unique in	formation	Number setting, GOT name display, GOT description display	2.3			
IP addres	S	Ethernet communication unit, IP address, subnet mask, default gateway, peripheral software port No., transparent port No., behavior of duplicate IPs	2.4			
IP filter se	etting	ng IP filter usage, setting for access from IP addresses, target IP address, exception IP address, specification of target IP address ranges				
Operation	I	Buzzer sound, musical interval, window move buzzer volume, Key sensitivity, Access switch for the drive A	2.6			
Utility call	call key Call key setting, pressing time setting					
USB host		USB mouse setting, interlock with mouse cursor touch operation, USB keyboard setting, USB keyboard type setting	2.8			
	Time setting	Current time, GOT internal battery voltage status				
Time	Adjust	Adjust the clock, mode, reference CH No., SNTP IP address, trigger type, specify the time zone of target unit, time zone, time difference from GMT	2.9			
Time	Broadcast	Broadcast the clock data, broadcast CH No., trigger type, specify the time zone of target unit, time zone, time difference from GMT				
Local time		Specify time zone, time difference from GMT				
Controller		The setting contents of the communication interface can be checked or changed.	2.10			
Ethernet communication		The contents of the Ethernet setting can be checked and the host can be changed.	2.11			
Transpare	ansparent mode Channel No. setting		2.12			
Security		Security level authentication	2.13			
Operator	authentication	Operator management, password change function setting	2.14			

2.1 Display

2.1.1 Display setting

Configure display settings.

The items which can be set are shown below. When each item part is touched, the respective setting becomes possible.

Item	Description	Setting range
Opening screen time	The title display period at the main unit boot can be set.	0 to 60 seconds *1 <at 0="" factory="" seconds="" shipment:=""></at>
Screen save time	The period from the user stops the touch panel operation till the screen save function starts can be set.	0 to 60 minutes ^{*1} <at 0="" factory="" minutes="" shipment:=""></at>
Battery alarm display	Whether to display system alarm when the voltage of the GOT internal battery has dropped can be specified.	ON/OFF <at factory="" off="" shipment:=""></at>
Human sensor	Screen saver status cancel by human sensor can be set to Effective or Invalid.	Valid/Invalid <at factory="" invalid="" shipment:=""></at>
Sensor detect level *2	The sensor detect level can be set.	0 to 10 <at 10="" factory="" shipment:=""></at>
Sensor detect time *2	The time corresponding to the [Sensor detect level] is displayed. (setting is disabled) When the [Sensor detect level] is changed, the corresponding time is reflected by touching [OK] button.	0 to 4 <at 0="" factory="" seconds="" shipment:=""></at>
Sensor off delay	The time period from when the human sensor detects no human movement until the Human Sensor Detection Signal (System Signal 2-1.b5) turns OFF can be set.	0Min 10Sec to 60Min 0Sec <at 0min="" 10sec="" factory="" shipment:=""></at>
Brightness adjustment mode ^{*3}	The brightness adjustment mode can be set to the standard or low intensity mode.	Standard/Low <at factory="" shipment:="" standard=""></at>
Brightness adjustment	The brightness can be adjusted.	1 to 32 ^{*4} <default: 32=""></default:>
POWER LED*5	Turning on/off the POWER LED can be set.	Turning on/off <at factory="" on="" shipment:="" turning=""></at>

*1 If setting 0, the title screen is not hidden.

The title screen is always displayed for 4 seconds or longer (which changes depending on the project data contents).

*2 The monitoring time corresponding to the sensor detect level (0 to 10) is as follows.

As the sensor detect level becomes greater, the sensitivity of the human sensor becomes higher.

Sensor detect level	10	9	8	7	6	5	4	3	2	1	0
Sensor detect time [s]	0	0.1	0.2	0.4	0.8	1	1.5	2	2.5	3	4

*3 For BootOS version D or earlier, the [Standard] mode is specified.

*4 For GT23, the brightness can be adjusted in 16 levels.

The following table shows the correspondences between values set in the utility and the brightness in 16 levels.

Setting value	1	2	3	4	5	6	7	8	 25	26	27	28	29	30	31	32
Brightness adjustment (16 levels)	,	1	2	2	ŝ	3	2	1	 1	3	1	4		5	1	6

*5 GT23 does not support.

POINT

(1) Display setting by GT Designer3

Set the title display period and screen save time in [GOT setup] in [Environmental Setting] of GT Designer3.

When change a part of the setting, change the setting by the GOT display setting after downloading the project data.

GT Designer3 (GOT2000) Screen Design Manual

(2) Screen save time

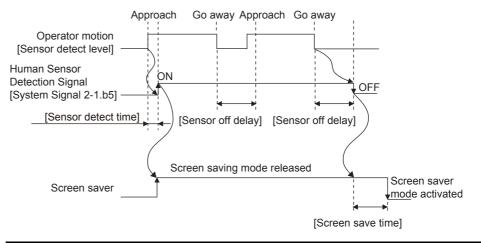
Using the system information function can compulsorily switch the controller to the screen saving status (Forced Screen Saver Disable Signal) or disable the screen save time (Automatic Screen Saver Disable Signal) set with Utility.

GT Designer3 (GOT2000) Screen Design Manual

(3) Display control by human sensor

The human sensor is a function that releases the GOT from the screen saving mode without the necessity to touch the GOT.

This function releases the GOT from the screen saving mode when the operator has come closer to the GOT.



When there is no operator around the GOT for the time set as "Sensor OFF delay", the "Human Sensor Detection Signal" turns OFF.

When the time set as the "Screen save time" elapses after the "Human Sensor Detection Signal" turns OFF, the GOT enters the screen saving mode.

Refer to the following for the Human Sensor Detection Signal (System Signal 2-1.b5).

GT Designer3 (GOT2000) Screen Design Manual

(4) When setting the human sensor to invalid

Even if setting the human sensor to invalid by the utility, the Human Sensor Detection Signal (System Signal 2-1.b5) turns ON when the human sensor detects human movement. Unintended operation may result, therefore, if controlling the Forced Screen Saver Enable Signal (System Signal 1-1.b1) and Human Sensor Detection Signal associating them with each other by a sequence program, etc.

When setting the human sensor to invalid, review the related sequence program, etc.

(5) Restrictions on the [Low] mode

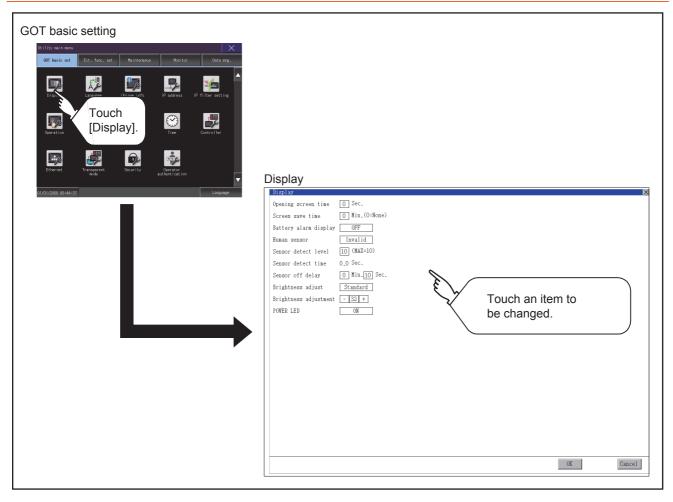
(a) Restrictions on the backlight shutoff detection

In the [Low] mode, the GOT cannot detect the backlight shutoff. To detect the backlight shutoff, set the brightness adjustment mode to [Standard].

(b) Restrictions on the screen display

In the [Low] mode, the screen may flicker, or the screen display may turn off. If you do not use the GOT in a dark place, set the brightness adjustment mode to [Standard].

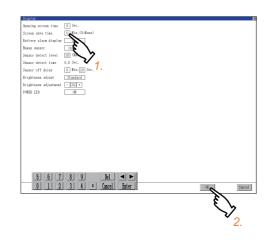
2.1.2 Display operation of display



2.1.3 Display setting operations

■1. Opening screen, screen save time

Step 1. Touch the setting item (numeral) to display a software keyboard. Input a value with the keyboard.



Step 2. Touch the [OK] button to restart the GOT and reflect the setting change. To cancel the setting change and return to the Main Menu, touch the [Cancel] button.

■2. Battery alarm display

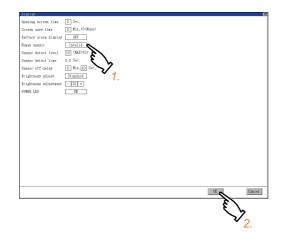
Step 1. Touch the setting item to change the selection. (ON OFF)

Opening stress [] Max. ⁽) Screen ares time [] Max. ⁽) Battery slava display [] Max. ⁽) Samor detect time [] Max. ⁽) Samor detect time 0.0 Sec. State of the logic flow [] Samor detect time 0.0 Sec. Trightness alignet [] Triggees <td< th=""><th>Uleplay</th><th></th></td<>	Uleplay	
lattery slars dimploy Toronto in the interval of the interval	Opening screen time	
Ham sear Searc detect level [0] (M&F10) [0] (M&F10) Searc det the 0.5 Sec. Searc det the 1.5 Sec. Frighteen slut Kannet Frighteen slut Kannet Frighteen slut (Sec. Frighteen slut	Screen save time	0 Min.(0:None)
Searcor detect larea 02 (462-10) Searcor detect larea 0.0 %ex. Searcor detect larea 0.0 %ex. Prighteens aljusteet : Statement Frighteens aljusteet : Statement Potte LID (A)	Battery alarm display	OFF
Searce detect the 0.0 Sec. 7 Searce off delay E Markov Highteen ships the Kandov Frighteen ships that ISIC Frighteen ships that ISIC Frighteen Ships that ISIC	Human sensor	
Samo of day D lu Lig Sec. 7 1. Frighteen shiret Samba: Frighteen shiret Corr FUER LID of O	Sensor detect level	10 (MAX-10) E
Irighteen aljuste I <u>Santeel</u> I. Frighteen aljuste I <u>SSI</u> NURR LD <u>O</u>	Sensor detect time	0.0 Sec. 2
Vrightness stjustset ΞΕΣΤ NHER LID α	Sensor off delay	0 Min.10 Sec. 4
2002 123 0	Brightness adjust	Standard
	Brightness adjustment	- 33 +
	POWER LED	06
tared to the second sec		
towell		
areal Lareet		
toned		
autore 2.		
a land		
are for the second seco		
a cand		
te to the second		
2.		OK Cancel
\$ <u>></u> 2.		
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v _{2.}		\ "
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		ζ.

Step 2.Touch the [OK] button to restart the GOT and reflect the setting change.To cancel the setting change and return to the Main Menu, touch the [Cancel] button.

■3. Human sensor

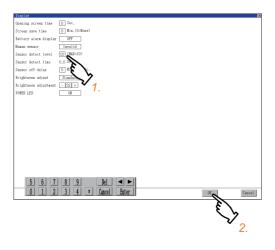
Step 1. Touch the setting item to change the selection. (Valid CINvalid)



Step 2.Touch the [OK] button to restart the GOT and reflect the setting change.To cancel the setting change and return to the Main Menu, touch the [Cancel] button.

■4. Sensor detect level, sensor off delay

Step 1. Touch the setting item (numeral) to display a software keyboard.
Input a value with the keyboard.
To move the cursor, touch the ◀ or ▶ button.



Step 2.Touch the [OK] button to restart the GOT and reflect the setting change.To cancel the setting change and return to the Main Menu, touch the [Cancel] button.

■5. Brightness adjustment mode

Step 1. Touch the setting item to change the selection. (Standard C Low)

Display		×
Opening screen time	0 Sec.	
Screen save time	D Nin.(0:None)	
Battery alarm display	v OFF	
Human sensor	Invalid	
Senøor detect level	10 (MAX=10)	
Sensor detect time	0.0 Sec.	
Senmor off delay	O Min.10 Sec.	
Brightness adjust	Standard	
Brightness adjustment	t - 132 + K	
POWER LED		
	<u>></u> /	
	▲ 1.	
E [C] 7	7 8 9 Bel < ►	
0 1 2	3 4 * Cancel Enter	Cancel
L	Y	
	8	<u>ا</u>
	•	<u>\7</u>
		× 2
		2.

Step 2. Touch the [OK] button to restart the GOT and reflect the setting change. To cancel the setting change and return to the Main Menu, touch the [Cancel] button.

■6. Brightness adjustment

Step 1. Touch the [+] or [-] key to adjust the brightness.

Display		J
Opening screen time	0 Sec.	
Screen save time	0 Nin. (0:Hone)	
Battery alarm display	OFF	
Human sensor	Invalid	
Senwor detect level	10 (MAX=10)	
Sensor detect time	0,0 Sec.	
Senmor off delay	0 Min.10 Sec.	
Brightness adjust	Standard	
Brightness adjustment	- 33 +	
POWER LED		
	E /	
	\mathbf{n}	
	V 1	
5 6 7	89 <u>lei</u> •	
0 1 2	3 4 Cancel Enter OK Cancel	i
	£ \	
	5	
	V	
	2.	

Step 2. If touch the [OK] button, the changed settings are reflected and the screen returns to the [Display] screen. If touch the [Cancel] button, the changed settings are canceled and the screen returns to the [Display] screen.

■7. POWER LED

Step 1. Touch the setting item to change the selection. (ON \bigcirc OFF)

Display		
Opening screen time	0 Sec.	
Screen save time	0 Min.(0:None)	
Battery alarm display	OFF	
Human sensor	Invalid	
Senmor detect level	10 (MAX=10)	
Sensor detect time	0.0 Sec.	
Sensor off delay	0 Min.10 Sec.	
Brightness adjust	Standard	
Brightness adjustment	- 32 +	
POWER LED	A NO	
	× ×	
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	\sim	
	1.	
5 6 7	89 Del 4 🕨	
	3 4 I Cancel Enter	
		OK Cancel
		13
		<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>
		\sim
		2.

Step 2.Touch the [OK] button to restart the GOT and reflect the setting change.To cancel the setting change and return to the Main Menu, touch the [Cancel] button.

2.2.1 Language setting

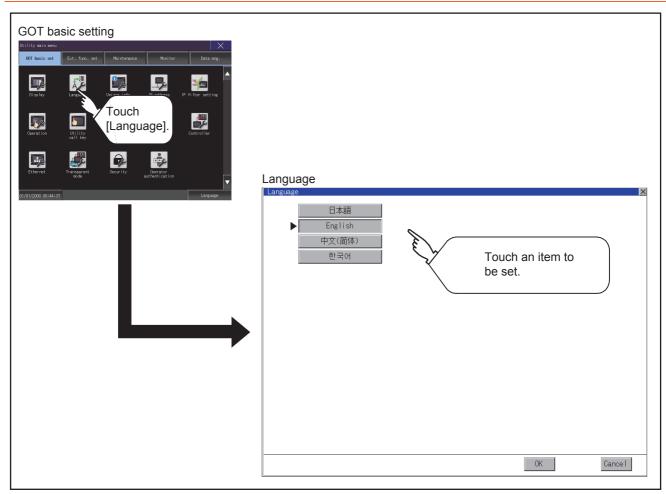
Configure language settings.

Item	Description	Setting range	
Language ^{*1}	Confirmation of the current language and switching language can be performed regarding with the language displayed by utility and dialog.	日本語 (Japanese) English (English) 中文(简体) (Chinese (Simplified)) 中文(繁建) (Chinese (Traditional)) 한국어 (Korean) (At factory shipment: User's selection>	

*1 Only selectable languages are displayed. The selectable languages differ depending on the fonts installed in the GOT. For details of the fonts, refer to the following.

GT Designer3 (GOT2000) Screen Design Manual

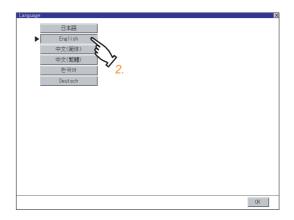
2.2.2 Display operation of language display



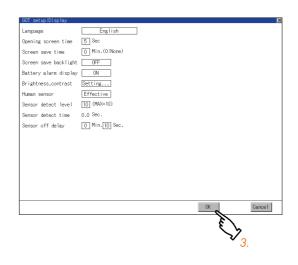
2.2.3 Setting operation of language

■1. Language

Step 1. If touch the language to be displayed, the language is selected.



Step 2. If touch the [OK] button, the GOT restarts and operates with the changed settings. If touch the [Cancel] button, the changed settings are canceled and the screen returns to the Main Menu.



POINT

(1) Selectable languages

The system message switch button is displayed only for the selectable languages. The selectable languages differ depending on the fonts installed in the GOT. For the relation between the selectable languages and the fonts, refer to the following.

GT Designer3 (GOT2000) Screen Design Manual

(2) System language switching using the device

The system language can be switched using the system language switching device set with GT Designer3.

For the setting method of the system language switching device, refer to the following.

Honora (GOT2000) Screen Design Manual

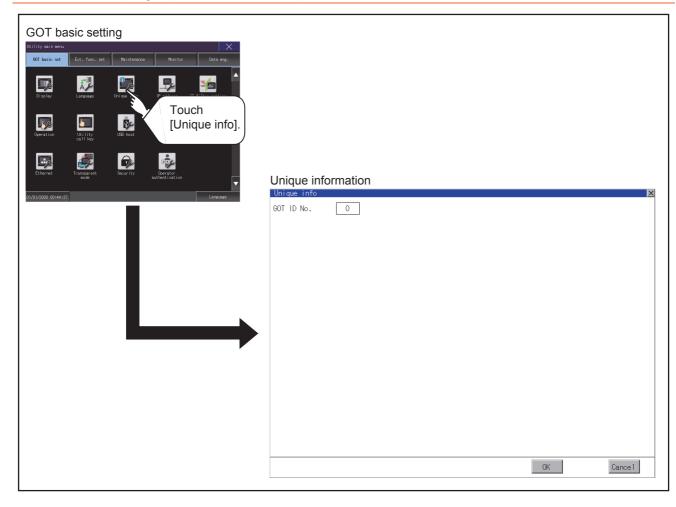
2.3 Unique Information

2.3.1 Unique information setting

Configure unique information settings.

Item	Description	Setting range
GOT ID No.	Set the ID No. as the unique information for the GOT.	0 to 32767 <default: 0=""></default:>

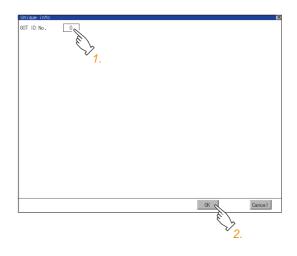
2.3.2 Display operation of unique information



2.3.3 Setting procedure for unique information

■1. GOT ID No.

Step 1. Touch the setting item to display a software keyboard. Input a value with the keyboard.



Step 2.Touch the [OK] button to restart the GOT and reflect the setting change.To cancel the setting change and return to the Main Menu, touch the [Cancel] button.

2.4 IP Address

2.4.1 IP address setting

Set the IP address and others.

Item	Description	Setting range
Ethernet comm. unit	Set whether to use the Ethernet communication unit.	Effective/Invalid <default: invalid=""></default:>
IP Address	Check or set the IP address.	0 to 255 Standard Ethernet <default: 192.168.3.18=""> Extension Ethernet <default: 192.168.5.22=""> Wireless LAN <default: 192.168.4.20=""></default:></default:></default:>
Subnet Mask	Check or set the subnet mask.	0 to 255 <default: 255.255.255.0=""></default:>
Default Gateway	Check or set the router address of the default gateway.	0 to 255 <default: 0.0.0.0=""></default:>
Per. S/W wireless port No.	Set the port number for the GOT to use peripheral software.	1024 to 5010, 5014 to 49152, 49171 to 65534 <default: 5014=""></default:>
Transparent port No.	Set the port number for the GOT to use the FA transparent function.	1024 to 5010, 5014 to 49152, 49171 to 65534 <default: 5015=""></default:>
Behavior of duplicate IPs	Set the behavior of the GOT to be performed when a device with the same IP address as the GOT is connected to the network afterwards.	Maintain a network connection (rec)/Do not maintain a network connection <default: a="" connection<br="" maintain="" network="">(rec)></default:>

	address
01/01/2000 00:44:37	Standard Ethernet Extension Ethernet Wireless LAN Standard Ethernet IP Address 192.168.3.18 Subnet Mask 255.255.0 Default Gateway 0.0.0.0 Per. S/W port No. 5015 Transparent port No. 5014 Behavior of duplicate IPs Maintain a network connection (rec)

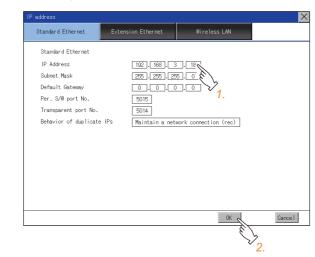
If the Ethernet setting is changed with applicable GOT special registers (GS), the GOT may not operate with the new Ethernet setting displayed in the utility.

Therefore, restart the GOT to reflect the new setting.

2.4.3 Setting procedure for the IP address

■1. Standard Ethernet and wireless LAN

- (1) IP address, subnet mask, default gateway, peripheral software port No., and transparent port No.
 - *Step 1.* Touch the entry box for the setting item to display a software keyboard. Input a value with the keyboard.



Step 2.Touch the [OK] button to restart the GOT and reflect the setting.To cancel the setting, touch the [Cancel] button to return to the main menu.

POINT

Settings of [Per. S/W port No.] and [Transparent port No.]

You cannot set the same port number for [Per. S/W port No.] and [Transparent port No.]. Set a different port number for each setting item.

(2) Behavior of duplicate IPs

This item is settable in [Standard Ethernet] only.

- Step 1. Touch the selection for the setting item to switch the selection. This setting determines the behavior of the GOT when a device with the same IP address connects to the network on which the GOT resides.
 - [Maintain a network connection (rec)]
 Displays a system alarm, and maintains the network connection for the GOT.
 - [Do not maintain a network connection] Disconnects the GOT from the network.

IP address			×
Standard Ethernet	Extension Ethernet	Wireless LAN	
Standard Ethernet			
IP Address	192.168.	3.18	
Subnet Mask	255 . 255 . 25	35.0	
Default Gateway	0.0.0).0	
Per. S/W port No.	5015		
Transparent port No.	5014		
Behavior of duplicate	IPs Maintain a net	work connection (rec)	
		(J	h
		2	/ 1.
		OK	Cance 1
		13	^
		\searrow	2
			<u>~</u> .

Step 2. Touch the [OK] button to restart the GOT and reflect the setting. To cancel the setting, touch the [Cancel] button to return to the main menu.

2. Extension Ethernet

- Step 1. Touch the selection for [Ethernet comm. unit] to switch to [Effective].
- *Step 2.* Touch the entry box for the setting item to display a software keyboard. Input a value with the keyboard.

IP address			×
Standard Ethernet	Extension Ethernet	Wireless LAN	
Extension Ethernet Ethernet comm. unit IP Address Subnet Mask Default Gateway	Effective 1921-198 2851-2851- 0-0-0-0	2.	
		СК	Cancel
		E	3

Step 3.Touch the [OK] button to restart the GOT and reflect the setting.To cancel the setting, touch the [Cancel] button to return to the main menu.

POINT

Assignment to an extension interface

The Ethernet communication unit is assigned to an unused extension interface with the lowest stage number.

If all extension interfaces are occupied, the Ethernet communication unit cannot be assigned.

GOT BASIC SETTING

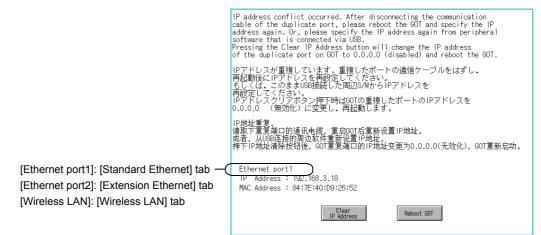
2.4.4 Precautions

■1. IP address setting

Specify a different network in the IP address setting in [Standard Ethernet], [Extension Ethernet], and [Wireless LAN].

■2. When the GOT connects to the network on which a device with the same IP address resides

The GOT goes into an offline state, and displays the following dialog.



Change the IP address of the GOT or the device.

- When changing the IP address of the device
- Specify a new IP address for the device, and touch the [Reboot GOT] button to restart the GOT.
- When changing the IP address of the GOT Touch the [Clear IP Address] button to clear the GOT IP address.
 Then, touch the [Reboot GOT] button to restart the GOT, and specify a new IP address for the GOT.

■3. Selection for [Behavior of duplicate IPs]

When [Do not maintain a network connection] is selected for [Behavior of duplicate IPs], if a device with the same IP address as the GOT connects to the same network, the GOT becomes disconnected from the network. Thus, incorrect setting of IP addresses or any malicious action may disable the relevant GOT to communicate, affecting the system control.

Make sure to consider the necessity to change the selection for [Behavior of duplicate IPs] before doing so.

■4. Using a switching hub compatible with the Spanning Tree Protocol

For the switching hub port connected with the GOT, configure the setting (PortFast or others) that makes the GOT be ready for communications (forwarding state). Thus, the Spanning Tree Protocol does not cause a delay upon connection.

Without the setting, the Ethernet IP address duplication is detected incorrectly.

Additionally, the GOT may not connect to the Ethernet network correctly.

For the setting that makes the GOT be ready for communications (forwarding state), refer to the user's manual for the switching hub used.

2.5.1 IP filter setting

IP addresses from which access to the GOT is allowed or blocked can be set. For the details of the IP filter setting, refer to the following.

GT Designer3 (GOT2000) Screen Design Manual

Item	Description	Setting range
IP filter usage You can set whether to use or not the IP filter function.		Yes/No <default: no=""></default:>
Access from the following address	 You can set whether to allow or block access from the IP addresses that set in the filtering list. If [Transmit] is selected Access from the IP addresses that are set for [Target IP address] is blocked. Access from the IP addresses that are set for [Exception IP address] is disallowed. If [Block] is selected Access from the IP addresses that are set for [Target IP address] is blocked. Access from the IP addresses that are set for [Target IP address] is blocked. Access from the IP addresses that are set for [Target IP address] is blocked. Access from the IP addresses that are set for [Exception IP address] is allowed. 	Transmit/Block <default: transmit=""></default:>
Range	You can set whether to register IP addresses by specifying a range. To specify a range, set the start IP address and the end IP address for [Target IP address].	Selected/Not selected <default: not="" selected=""></default:>
Target IP address You can set IP addresses or IP address ranges to be filtered. Up to 32 ranges can be set.		0.0.0.0 to 255.255.255.255 ^{*1} <default: blank=""></default:>
Exception IP address	This item can be set only when [Range] is selected. For an IP address range specified in [Target IP address], set IP addresses excluded from being filtered. Up to 32 addresses can be set for one range specified in [Target IP address].	0.0.0.0 to 255.255.255.255 ^{*1} <default: blank=""></default:>

*1 Leave the boxes blank if you do not set any IP addresses.

OT basic setting		
007 basic set Ext. func. set Nainterance Monitor Data mg.		
Die lev Touch [IP filter setting].		
Ethernot. Transparent Security Benefician	IP filter setting	
01/2000 00:44137 Language	IP filter setting	×
	IP filter usage	Y
	Access from the following address Transmit	V
	No. Range Target IP address	Exception IP address
		Not set
	2 192.168.20.1 - 192.168.20.10	Set 🔻
	3 192,168,30,1	▼ ▼
		· · · · · · · · · · · · · · · · · · ·
	8	▼
	9	•
	10	▼
	11	▼ <u>▼</u>
	12	¥
		Default OK Cancel

2.5.3 Setting procedure for the IP filter

■1. Setting IP addresses

IP filter se	tting				
IP filter usa	ige	Yes	1		
Access from t	he following address	Transmit	~~E/		
No. Range Ta	arget IP address		E VIP also	*	
1 🔳 🗓	92.168.0.1				
2	∕3□		° Z.	V	
3 🔳 🗆		7		V	
4 🔳 🗆		3.		V	
5 🔳 🗆	·			V	
3 🔳 🗆				V	
7 🔳 🗆	·			V	
з 🔳 С				V	
э 🔳 С	·				
10 🔳 🗌				V	
11 🔳 🗆	·			v 1	
12 🔳 🗌				* *	
			Def	ault	Olic Cancel
					<u></u>
					∽ <u>5.</u>
					× 5.

- Step 2. Touch the down arrow of the [Access from the following address] list box and select [Transmit] or [Block].
- Step 3. Touch a start IP address entry box in the [Target IP address] section in the filtering list to display a software keyboard.

Input a value with the keyboard.

- *Step 4.* For specifying an IP address range and setting an IP address excluded from a specified range, refer to the following.
 - Specifying IP address ranges
 - (1) Specifying IP address ranges
 - Setting exception IP addresses
 - (2) Setting exception IP addresses
- Step 5.Touch the [OK] button to restart the GOT and reflect the setting change.To cancel the setting change and return to the Main Menu, touch the [Cancel] button.To change the setting for each item to its default, touch the [Default] button.

(1) Specifying IP address ranges

Step 1. Touch the checkbox in the filtering list to display the end IP address entry boxes in the [Target IP address] section.

9 filter	IISBRE	Yes	V		
	m the following address	Transmit	v		
		Transiire			
. Range	Target IP address		Exception IP address	2	
\checkmark	192,168,0,1 - 192,	168.10.10	Not set	▼ A	
V	192.168.20.1 192.	168.20.10	Set	I ▼ 🗖	
S.	2.168.30.16	5		•	
٩	<u> </u>		2	•	
		2.	×2.	•	
				•	
				•	
				•	
				•	
				T	
1				v v	
2				* ¥	

Step 2. In the filtering list, touch any IP address entry box in [Target IP address] to display a software keyboard. Input a value for each box with the keyboard.

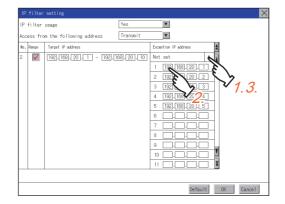
Step 1. Touch the down arrow of the [IP filter usage] list box and select [Yes].

GOT BASIC SETTING

(2) Setting exception IP addresses

[Exception IP address] can be set only when [Range] is selected.

Step 1. Touch the exception IP address display button to open the exception IP address list.



- Step 2. Touch an exception IP address entry box to display a software keyboard. Input a value for each box with the keyboard.
- Step 3. Touch the exception IP address display button to close the exception IP address list.

2.6 Operation

2.6.1 Operation setting

Setting regarding GOT operation can be set.

The items which can be set are described below. If touch the each item part, the respective setting becomes possible.

Function	Description	Setting range
Buzzer volume setting	Buzzer volume setting can be changed.	OFF/SHORT/LONG <at factory="" shipment:="" short=""></at>
Musical interval setting	The setting of the musical interval for the buzzer sound can be changed.	1 to 5 <default: 4=""></default:>
Window move buzzer volume setting	Whether turn ON/OFF buzzer when move window can be selected.	ON/OFF <at factory="" off="" shipment:=""></at>
Key sensitivity setting	The touch panel sensitivity when touching the GOT screen can be set. E.g. a setting can be changed when double-touch is made when touching the GOT screen only once. (For preventing chattering)	1 to 8 ^{*1} <default: 6=""></default:>
Access switch for the drive A	Set whether to access drive A or not while the cover of an SD card interface is open.	Unignore/Ignore <default: unignore=""></default:>

*1 Relation between the [Key sensitivity] setting and reaction speed

The larger the set value in [Key sensitivity] is, the shorter the time taken from touching the touch panel until the GOT responds becomes. E.g. decrease the value set for [Key sensitivity] when double-touch is made when touching the GOT screen only once. (Decrease the reaction speed.)

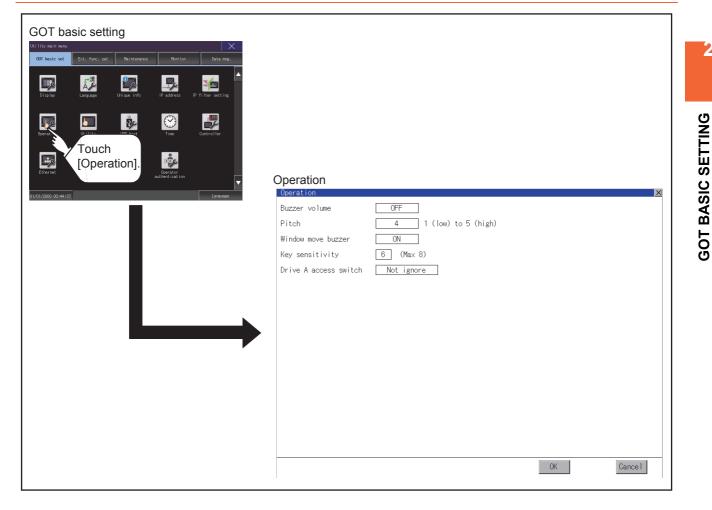
POINT

Operation setting by GT Designer3

Set buzzer volume and window move buzzer volume by [GOT setup] in [Environmental Setting] of GT Designer3.

When change a part of the setting, change the setting by the GOT display setting after downloading the project data.

GT Designer3 (GOT2000) Screen Design Manual



2.6.3 Setting operation of operation

■1. Buzzer sound, musical interval, window move buzzer volume, access switch for the drive A

Step 1. If touch the setup item, the setup contents is changed.

GOT setup:Operation			
Buzzer volume			
Window move buzzer			
Security setting	Setting		
Utility call key	Setting		
Key sensitivity	6 (Max 8)		
Key reaction speed	Standard (±0)ms		
Touch panel calibration	Setting		
Touch detection mode	Avoid input error		
USB mouse/keyboard	Setting		
SoftGOT-GOT link	Setting		
VNC server func. setti	g[Setting]		
		017	0
		ок	Cancel
		Ē	
		\sim	2
		•	2

Step 2. If touch the [OK] button, the GOT restarts and operates with the changed settings. If touch the [Cancel] button, the changed settings are canceled and the screen returns to the Main Menu.

■2. Key sensitivity setting

Step 1. If touching the setting items, keyboard is displayed. Input numeric with the keyboard.

GOT setup:Operation	×
Buzzer volume	OFF
Window move buzzer	0FF
Security setting	Setting 1.
Utility call key	Settin
Key sensitivity	Max 8)
Key reaction speed	Standard (±0)ms
Touch panel calibration	Setting E. 2.
Touch detection mode	Avoid input error
USB mouse/keyboard	Setting
SoftGOT-GOT link	Setting
VNC server func. setting	g Setting
5 6 7	8 9 Del < >
	J 4 • Gance1
	E C
	3.

- Step 2. The key response speed corresponding to the [Key sensitivity] setting is displayed.
- Step 3. If touch the [OK] button, the GOT restarts and operates with the changed settings. If touch the [Cancel] button, the changed settings are canceled and the screen returns to the Main Menu.

2.7 Utility Call Key

2.7.1 Utility call key setting

The key position for calling the main menu of the utility can be specified.

For the key position, the specification of 1 point from 4 corners on the screen, or no specification, can be set.

(No specification can be set when GT Designer3 is used.)

By keeping pressing the screen, a setting to switch the screen to the utility is available.

This prevents a switching to the utility by an unintentional operation.

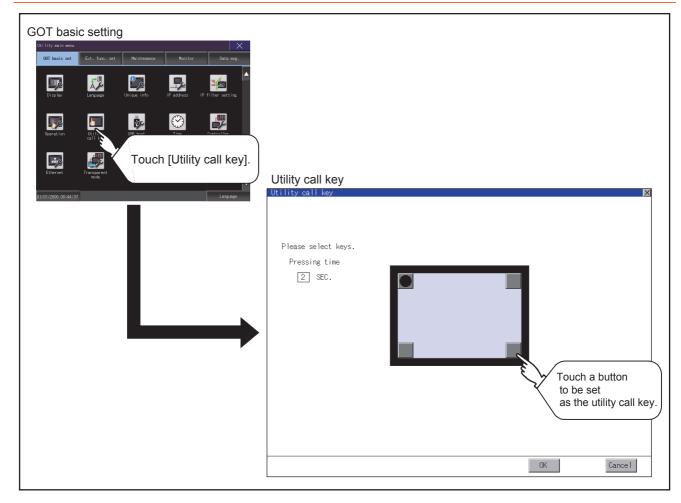
POINT

Operation setting by GT Designer3

Set the utility call key at [GOT set up] in [Environmental Setting] of GT Designer3. When change a part of the setting, change the setting by the GOT display setting after downloading the project data.

GT Designer3 (GOT2000) Screen Design Manual

2.7.2 Display operation of the utility call key setting



2.7.3 Utility call key setting operation

Step 1. Touch ● or ○ displayed at the 4 corners of the setting screen. The button repeats ● ○ with every touch Set the corner to be specified as a key position to ●. For the key position, up to 1 point can be specified.

When the key position is not specified, displaying the utility with the utility call key is not available.

Utility call key			×
Please select keys.			
Pressing time		-	
2 580.			
		OK	Cance 1

Step 2. When setting 1 point, specify the time to switch to the utility in case of keeping pressing the key position. Touch the time input area.

Please select keys. Pressing time SEC. 2.	×
5 6 7 8 9 Del ◄► 0 1 2 3 4 ≭ Cancel Enter 3. 4.	Cancel

- *Step 3.* Touching the input area displays a keyboard. Input numeric with the keyboard.
- Step 4. If touch the [OK] button, the changed settings are reflected and the screen returns to the [Operation] screen. If touch the [Cancel] button, the changed settings are canceled and the screen returns to the [Operation] screen.
- Step 5. In the [Operation] screen, touching the [OK]/[Cancel]/[×] button restarts and operates the GOT with the changed settings.

POINT

(1) When the utility call key is not specified

The followings are the method for displaying the utility without using the utility call key.

- (a) Changing the project data in GT Designer3
 - Step 1. Read the project data in GT Designer3.
 - Step 2. Set either of the followings in GT Designer3.
 - Set the utility call key in the [Display/Operation] tab of the [Environmental Setting] dialog.
 - Set a special function switch to display the utility at the user-created screen.
 - *Step 3.* Write the project data whose setting is changed to the GOT.
- (b) Operating the forced start-up of the utility with the GOT

After powering on the GOT, pressing the S.MODE switch during [Booting] displayed on the upper left displays the utility in the screen.

When restricting the display of the utility, set a password in GT Designer3.

🗯 GT Designer3 (GOT2000) Screen Design Manual

(2) Precautions on using the alarm popup display

When [Display Position Switching] is set to [Switch] in the alarm popup display setting, set either of the following for the utility call key.

- · Setting the position of the utility call key to the upper-right or lower-left corner
- Setting [Pressing Time] of the utility call key to 1 or more seconds

When [Pressing Time] is set to 0 and the key position is set to the lower-left corner, the operation is as described below. If the positions of the key and the alarm popup display overlap, the utility screen appears by switching the display position of the alarm popup display.

For the alarm popup display, refer to the following.

Im GT Designer3 (GOT2000) Screen Design Manual

2.8 USB Host

2.8.1 USB host setting

To install and use the USB mouse/keyboard on the GOT, set the USB mouse/keyboard.

Item	Description	Setting range
Use USB mouse	Set whether to use a USB mouse.	YES/NO <default: yes=""></default:>
Interlock with mouse cursor touch operation	The mouse cursor can be moved to the touched position.	YES/NO <default: yes=""></default:>
Use USB keyboard	Set whether to use a USB keyboard.	YES/NO <default: yes=""></default:>
USB keyboard type	Set the USB keyboard type.	Japanese 106 keyboard/English 101 keyboard <default: 106="" japanese="" keyboard=""></default:>

2.8.2 Display operation of the USB host setting

GOT basic setting	
Utility main menu X 607 Busic set Ext. func. set Maintenance Monitor Data mmg.	
Display Language Unicar Info IP address IP filter setting	
Geration Utility Using	
	USB host
01/01/2000 00:44:57 Language	USB host 🛛 🗶 Use USB mouse YES
	Interlock with mouse cursor touch operation YES Use USB keyboard YES
	USB keyboard type Japanese 106 keyboard
	Touch buttons for setting a USB
	\ mouse and USB
	keyboard.
	OK

2.8.3 Setting operation of USB host

- *Step 1.* To use the USB mouse, touch the setting item of [Use USB mouse]. The setting content is changed by touching.
 - (YES NO)

SB host Use USB mouse	NO _	
Interlock with mouse cursor touch operation	YES E Y	
Use USB keyboard	YES 7.	
USB keyboard type	Japanese 106 keyboard	

Step 2. To move the mouse cursor to the touched position, touch the setting item of [Interlock with mouse cursor touch operation].

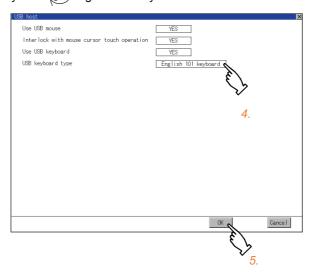
The setting content is changed by touching. (YES \bigcirc NO)

YES
YES
Japanese 100 Dard
2 .
0K Cancel

Step 3. To use the USB keyboard, touch the setting item of [USB keyboard type]. The setting content is changed by touching. (YES NO)

ISB host	
Use USB mouse	YES
Interlock with mouse cursor touch operation	YES
Use USB keyboard	NO
USB keyboard type	Japanese Theyboard 3.
	0K Cance I

Step 4.To use the USB keyboard, touch the setting item of [USB keyboard type].The setting content is changed by touching.Japanese 106 keyboardEnglish 101 keyboard



- Step 5. If touch the [OK] button, the changed settings are reflected and the screen returns to the [USB Host] screen.
 If touch the [Cancel] button, the changed settings are canceled and the screen returns to the [USB Host] screen.
- Step 6. In the [Operation] screen, touching the [OK]/[Cancel]/[×] button restarts and operates the GOT with the changed settings.

2.9.1 Clock synchronization method

The following shows the clock synchronization method on the GOT.

Clock synchronization method	Description		
	Acquire the clock data of the controller or the SNTP server and change the clock data of the GOT.		
Time setting function	2013/4/1 2013/4/1 12:45:07 12:45:07 SNTP server GOT When the GOT is powered on, set the clock data of the GOT to that of the controller or the SNTP server. Since the GOT does not have to hold the clock data while the GOT is powered off, no battery is required. To set the controller clock data of the controller, refer to the manual of the controller you use.		
Time notification function	Notify the clock data of the GOT to the controller to change that of the controller.		
Using the clock adjustment function and the time notification function together	Acquire the clock data of the controller or the SNTP server by the clock adjustment function. Then change the clock data of other controllers by the time notification function. Then change the clock data of other controllers by the time notification function. $\begin{array}{c} 2013/4/1 \\ 12:45:07 \\ GOT \end{array}$		

POINT

Details of the clock synchronization method

For the details of the clock synchronization method, refer to the following.

Image: GT Designer3 (GOT2000) Screen Design Manual

2.9 Time

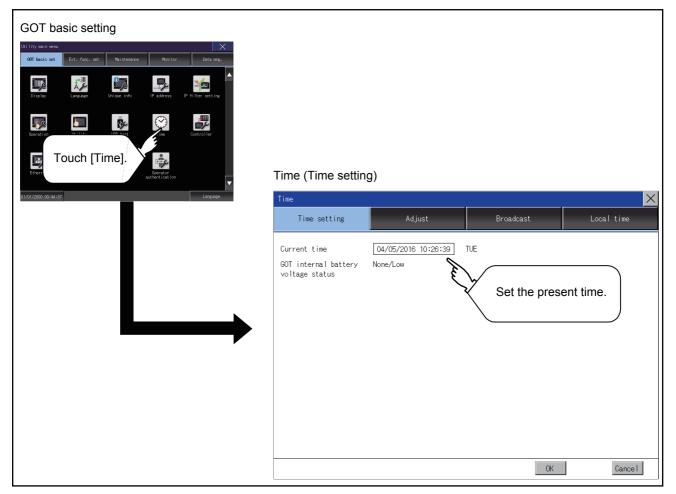
2.9.2 Time setting

Set the current time.

■1. Time setting

Item	Description	Reference
Current time	Carry out the display and setup of GOT clock data.	■ 2.9.2 ■3. (1) Current time
GOT internal battery voltage status	Displays GOT internal battery voltage status.	■ 2.9.2 ■3. (2) GOT internal battery voltage status

■2. Display operation of the time setting

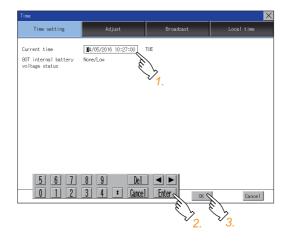


■3. Setting procedure for the time setting

(1) Current time

Carry out the display and setting of GOT clock data. The setup methods of clock data are shown below.

Step 1. Touch the current date and time to display the keyboard and stop the clock update.



 Step 2. Input date and time with the keyboard by referring to the table below. The input date and time are reflected after step 3 is performed. The day of the week on the input date is displayed automatically. The following shows the setting range of the date. Jan. 1, 2000 to Dec. 31, 2099

Кеу	Description
[0] to [9]	Input numeric value in cursor position.
,	Move the cursor.
[Del]	Move the cursor to the left by one character when [Del] Key is touched while inputting year, month, day, time, minutes, seconds.
[Enter]	Close the keyboard after the input time is displayed in clock display.
[Cancel]	Cancel the input time and returns the time of clock display to the time at which the keyboard was displayed and close the keyboard.

Step 3. To reflect the new setting and return to the Main Menu, touch the [OK] button. To cancel the new setting and return to the Main Menu, touch the [Cancel] button.

(2) GOT internal battery voltage status

Displays battery voltage status.

Display	Status	
Normal	Normal	
Low/None	Voltage drop or no battery installed	

When the battery voltage is low, replace the battery immediately. Refer to the following for battery replacement procedure.

GOT2000 Series User's Manual (Hardware)

2.9.3 Adjusting the clock

Synchronize the clock data of the GOT with the clock data of the controller.

■1. Clock adjustment setting

Item	Description	Setting range
Adjust the clock	Set whether to use the clock adjustment function.	Yes (selected)/No (deselected) <default: (deselected)="" no=""></default:>
Mode	Set the clock adjustment mode.*1	External unit/SNTP server <default: external="" unit=""></default:>
Reference CH No.	When selecting [External unit] for [Mode], set a reference channel of the controller.	1 to 4 <default: 1=""></default:>
SNTP IP address	When selecting [SNTP server] for [Mode], set the IP address of the SNTP server. Touch the [Connection test] button to check the connection with the SNTP server.	0.0.0.0 to 255.255.255.255 <default: 0.0.0.0=""></default:>
Trigger type	 Set the trigger type for the clock adjustment.^{*2} When selecting [Sampling] for [Trigger type], set the sampling interval for the clock adjustment. When selecting [Rise] or [Fall] for [Trigger type], information on the device set as a trigger is displayed.^{*3} 	Trigger type: Rise/Fall/Sampling <default: sampling=""> Sampling interval: 1 to 1440 <default: 60=""></default:></default:>
Specify the time zone of target unit	Set whether to specify the time zone of the target controller.	Selected/Not selected <default: not="" selected=""></default:>
Time zone	When selecting [Specify the time zone of target unit], set the time zone.	GMT-12:00 to GMT+13:00/Custom <default: gmt+9:00=""></default:>
Time difference from GMT	When selecting [Custom] for [Time zone], set the time difference based on GMT.	Hour: -12 to 13 Minute: 0, 15, 30, or 45 <default: 0="" hour="" minute=""></default:>

*1 If you set this item to [SNTP server], set [Time zone] to the time zone of the local time.

2.9.5 Local time

*2 If [Adjust the clock] is deselected or [Trigger Type] is set to [Sampling] in [GOT Setup] in the project data, only [Sampling] is selectable as the trigger type for the clock adjustment in the utility.

*3 If [Adjust the clock] is deselected or [Trigger Type] is set to [Sampling] in [GOT Setup] in the project data, [No setting] is displayed in [Device].

POINT

Settings of [Adjust] in the utility

Configure the settings in the utility and in [GOT Setup] on GT Designer3 by the same method.

Image: GT Designer3 (GOT2000) Screen Design Manual

■2. Display operation of the clock adjustment

GOT basic setting				
Utility main nemu X OUT basic set Ect. Func. set Maintenance Monitor Data mg.				
Display Language Unique info IP address IP filter setting				
Toperative Institute Toperative Control ler				
Ether	Time (Time settin	g)		
01/01/2000 00:44:57	Time			×
	Time setting	Adjust	Broadcast	Local time
	Adjust the clock			
	Mode	External unit 🔍		
	Reference CH No.	1 .		
	SNTP IP Address	0.0.0.0	Connection test	
	Trigger type	Sampling	60 Min.	
	Device	No setting	%	
		e zone of target unit		e the time
	Time zone	GMT+09:00	setting fu	nction setting.
	lime differenc	e from GMT 🛛 🔺 🔻 hour		
			OK	Cance 1

■3. Setting procedure for the clock adjustment

(1) Adjust the clock

Step 1. To synchronize the clock data of the GOT with the clock data of the controller, select [Adjust the clock].

Time setting	Adjust	Broadcast	Local time
Adjust the clock			
Mode	External unit 🔻		
Reference	1 🔻		
SNTP IP Address 1	0.0.0.0	Connection test	
Trigger type	Sampling 🔻	60 Min.	
Device	No setting		
□ Specify the time	zone of target unit		
Time zone	GMT+09:00		
Time difference	from GMT 0 A v hour	0 V Min.	
		0K S	
		UK	Cance
		3	<i>č</i>
			2/ _

 Step 2.
 Touch the [OK] button to display a restart confirmation dialog.

 Restart the GOT to operate with the new setting.
 If touch the [Cancel] button, the changed settings are canceled and the screen returns to the Main Menu.

(2) Mode

Step 1. Touch the setting item and select a setting from the list.

Time			
Time setting	Adjust	Broadcast	Local time
🗹 Adjust the clock			
Mode	External unit 🔻		
Reference CH No.	External unit SNTP server		
SNTP IP Address	0.08	Connection test	
Trigger type	Sampling	60 Min.	
Device	No setting		
□ Specify the tim	e zone of target unit		
Time zone	GMT+09:00	* *	
Time difference	e from GMT 0 🔺 🔻 hour	0 V Min.	
		OK C	Cancel
			<u>(; / </u>
			\searrow_{a}
			Ζ.

Step 2. Touch the [OK] button to display a restart confirmation dialog.
 Restart the GOT to operate with the new setting.
 If touch the [Cancel] button, the changed settings are canceled and the screen returns to the Main Menu.

(3) Reference CH No.

Step 1. Touch the setting item and select a setting from the list.

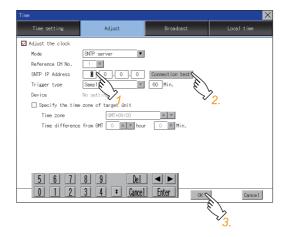
ine			
Time setting	Adjust	Broadcast	Local time
🗹 Adjust the clock			
Mode	External unit 💌		
Reference CH No.	1		
SNTP IP Address		Connection test	
Trigger type		60 Min.	
Device	4 NO SETTING		
□ Specify the time	e zone of target unit		
Time zone	GMT+09:00	× ×	
Time difference	e from GMT 🛛 🔺 💌 hour	r 0 🔻 Min.	
		ÛKO	Cancel
			<u></u>
		c	<u>`</u> }
			× 2.

 Step 2.
 Touch the [OK] button to display a restart confirmation dialog.

 Restart the GOT to operate with the new setting.
 If touch the [Cancel] button, the changed settings are canceled and the screen returns to the Main Menu.

(4) SNTP IP address

Step 1. Touch the setting item to display a software keyboard. Input a value for each box with the keyboard.



- Step 2. Touch the [Connection test] button to check the connection with the SNTP server.
- Step 3.
 Touch the [OK] button to display a restart confirmation dialog.

 Restart the GOT to operate with the new setting.
 If touch the [Cancel] button, the changed settings are canceled and the screen returns to the Main Menu.

(5) Trigger type

Step 1. Touch the setting item and select a setting from the list.

Time			×
Time setting	Adjust	Broadcast	Local time
🖬 Adjust the clock			
Mode	External unit 🔻		
Reference CH No.	1 🔻		
SNTP IP Address	0.0.0.0	Connection test	
Trigger type	Sampling	60 Min.	
Device	No setting 6	6	
Specify the time	zone of target unit	1 20	
Time zone	GMT+09:00	· A V 2.	
Time difference	from GMT 0 🔺 🔻 hour	r 🛛 🔻 Min.	
5 6 7	8 9 Del		
0 1 2	3 4 * Cancel	Enter	0
			Cancel
		3	ごろ
			V3.

- Step 2. If you select [Sampling], set the sampling interval for the clock adjustment. Touch the entry box on the left side of [Min.] to display a software keyboard. Input a value with the keyboard.
- Step 3.
 Touch the [OK] button to display a restart confirmation dialog.

 Restart the GOT to operate with the new setting.
 If touch the [Cancel] button, the changed settings are canceled and the screen returns to the Main Menu.

(6) Specify the time zone of target unit

Step 1. To specify the time zone of the target controller, select [Specify the time zone of target unit].

Time			X
Time setting	Adjust	Broadcast	Local time
🗹 Adjust the clock			
Mode	External unit 🔻		
Reference CH No.	1		
SNTP IP Address	0.0.0.0	Connection test	
Trigger type	Sampling V	60 Min.	
Device	No setting		
🖌 Specify the tim	e zone of target unit		
Time zone	GMT+09:00	A T	
Time differend	GMT 0 🔺 🔻 hou	r 🛛 🔻 Min.	
	$\sqrt{1}$		
		OK S	Cancel
			$\langle u \rangle$
			$\overline{\mathbf{v}}_{\mathbf{o}}$
			∠.

 Step 2.
 Touch the [OK] button to display a restart confirmation dialog.

 Restart the GOT to operate with the new setting.
 If touch the [Cancel] button, the changed settings are canceled and the screen returns to the Main Menu.

(7) Time zone

Step 1. Touch the up or down button on the right side of the time zone entry box to change the setting.

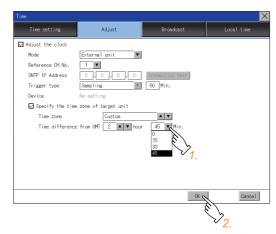
Time			×
Time setting	Adjust	Broadcast	Local time
🗹 Adjust the clock			
Mode	External unit 🔻		
Reference CH No.	1		
SNTP IP Address	0.0.0.0	Connection test	
Trigger type	Sampling 🔻	60 Min.	
Device	No setting		
🖌 Specify the tir	me zone of target unit		
Time zone	GMT+09:00	A V	
Time differenc	e from GMT 0 ▲ ▼ hou	r 💽 Min.	
		5	
		× 1.	
		OK C	Cancel
		VN	
		-	<i>i</i> b
			\mathbb{V}_{2}

 Step 2.
 Touch the [OK] button to display a restart confirmation dialog.

 Restart the GOT to operate with the new setting.
 If touch the [Cancel] button, the changed settings are canceled and the screen returns to the Main Menu.

(8) Time difference from GMT

Step 1. To change the setting of [hour], touch the up or down button on the left side of [hour]. To change the setting of [Min.], touch the pull-down menu button on the left side of [Min.] and select an item from the list.



 Step 2.
 Touch the [OK] button to display a restart confirmation dialog.

 Restart the GOT to operate with the new setting.
 If touch the [Cancel] button, the changed settings are canceled and the screen returns to the Main Menu.

2.9.4 Broadcasting the clock data

Notify the clock data of the GOT to the controller for synchronization with the GOT.

■1. Time notification setting

Item	Description	Setting range
Broadcast the clock data	Set whether to use the time notification function.	Selected/Not selected <default: not="" selected=""></default:>
Broadcast CH No.	Set a channel used for the time notification.	CH 1, CH 2, CH 3, CH 4 <default: 1=""></default:>
Trigger type	 Set the trigger type for the time notification.^{*1} When selecting [Sampling] for [Trigger type], set the sampling interval for the time notification. When selecting [Rise] or [Fall] for [Trigger type], information on the device set as a trigger is displayed.^{*2} 	Trigger type: Rise/Fall/Sampling <default: sampling=""> Sampling interval: 1 to 1440 <default: 60=""></default:></default:>
Specify the time zone of target unit	Set whether to specify the time zone of the target controller.	Selected/Not selected <default: not="" selected=""></default:>
Time zone	When selecting [Specify the time zone of target unit], set the time zone.	GMT-12:00 to GMT+13:00/Custom <default: gmt+9:00=""></default:>
Time difference from GMT	When selecting [Custom] for [Time zone], set the time difference based on GMT.	Hour: -12 to 13 Minute: 0, 15, 30, or 45 <default: 0="" hour="" minute=""></default:>

*1 If [Broadcast the clock data] is deselected or [Trigger Type] is set to [Sampling] in [GOT Setup] in the project data, only [Sampling] is selectable as the trigger type for the time notification in the utility.

*2 If [Broadcast the clock data] is deselected or [Trigger Type] is set to [Sampling] in [GOT Setup] in the project data, [No setting] is displayed for the device.

POINT

Settings of [Broadcast] in the utility

Configure the settings in the utility and in [GOT Setup] on GT Designer3 by the same method.

GT Designer3 (GOT2000) Screen Design Manual

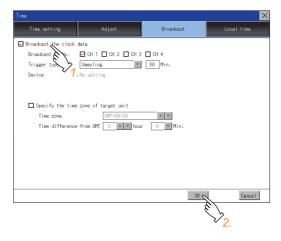
■2. Display operation of the time notification

GOT basic setting	
Utility main menu X 007 basic set Ext. func. set Maintenance Monitor Data me.	
Disslay Language Unitate info IP statess IP filter setting	
Creation Ibility Ion Let	
Touch [Time].	
Ethern Diperator authent licat ion	Time (Broadcast tab)
	Time setting Adjust Broadcast Local time
	Broadcast the clock data
	Broadcast CH No. 🛛 CH 1 🗌 CH 2 🔲 CH 3 🔲 CH 4
	Trigger type Sampling 60 Min.
	Device No setting Configure the time notification function
	Specify the time zone of target unit setting.
	Time zone GMT+09:00
	Time difference from GMT O A V hour O V Min.
	OK Cancel

■3. Setting procedure for the time notification

(1) Broadcast the clock data

Step 1. To notify the clock data of the GOT to the controller for synchronization with the GOT, select [Broadcast the clock data].



Step 2.Touch the [OK] button to display a restart confirmation dialog.Restart the GOT to operate with the new setting.If touch the [Cancel] button, the changed settings are canceled and the screen returns to the Main Menu.

(2) Broadcast CH No.

Step 1. Touch a channel number to select it.

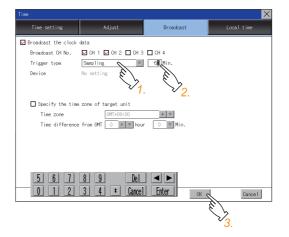
Time				×
Time setting	Adjust	Broadcast	Loca	ltime
🗹 Broadcast the clock	data			
Broadcast CH No.	🗹 СН 1 🖂 он 2 🗆 СН 3	CH 4		
Trigger type	Sampling	60 Min.		
Device	No setting			
	× 1.			
Specify the time	zone of target unit			
Time zone	GMT+09:00	× ×		
Time difference	from GMT 0 🔺 🔻 hou	r 0 🔻 Min.		
		OK	8	Cancel
			13	
			\searrow_{2}	
			· Z.	

 Step 2.
 Touch the [OK] button to display a restart confirmation dialog.

 Restart the GOT to operate with the new setting.
 If touch the [Cancel] button, the changed settings are canceled and the screen returns to the Main Menu.

(3) Trigger type

Step 1. Touch the setting item and select a setting from the list.



- *Step 2.* If you select [Sampling], set the sampling interval for the time notification. Touch the entry box on the left side of [Min.] to display a software keyboard. Input a value with the keyboard.
- Step 3. Touch the [OK] button to display a restart confirmation dialog.
 Restart the GOT to operate with the new setting.
 If touch the [Cancel] button, the changed settings are canceled and the screen returns to the Main Menu.

(4) Specify the time zone of target unit

Step 1. To specify the time zone of the target controller, select [Specify the time zone of target unit].

Time			×
Time setting	Adjust	Broadcast	Local time
🖬 Broadcast the clock	data		
Broadcast CH No.	🗹 CH 1 🗹 CH 2 🔲 CH 3	🗆 CH 4	
Trigger type	Sampling 🔻	60 Min.	
Device	No setting		
Specify the time Time zone Time differ	zone of target unit (947+09:00 Form (947 0 in in hour 0 in	r O W Min.	Gancel
			E 2

Step 2.Touch the [OK] button to display a restart confirmation dialog.Restart the GOT to operate with the new setting.If touch the [Cancel] button, the changed settings are canceled and the screen returns to the Main Menu.

(5) Time zone

Step 1. Touch the up or down button on the right side of the time zone entry box to change the setting.

			×
Time setting	Adjust	Broadcast	Local time
🗹 Broadcast the clock	data		
Broadcast CH No.	🗹 CH 1 🗹 CH 2 🔲 CH 3	CH 4	
Trigger type	Sampling 🔻	60 Min.	
Device	No setting		
☑ Specify the time Time zone Time difference	zone of target unit (AMT-09:00 from GMT () () () () () () () () () (1.	
		OK (Cance 1
			² .

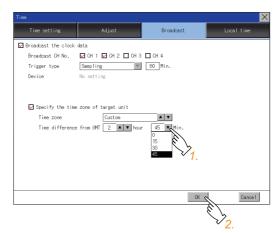
Step 2. Touch the [OK] button to display a restart confirmation dialog.

Restart the GOT to operate with the new setting.

If touch the [Cancel] button, the changed settings are canceled and the screen returns to the Main Menu.

(6) Time difference from GMT

Step 1. To change the setting of [hour], touch the up or down button on the left side of [hour]. To change the setting of [Min.], touch the pull-down menu button on the left side of [Min.] and select an item from the list.



Step 2. Touch the [OK] button to display a restart confirmation dialog.
 Restart the GOT to operate with the new setting.
 If touch the [Cancel] button, the changed settings are canceled and the screen returns to the Main Menu.

2.9.5 Local time

Set the time zone of the local time in the clock data of the GOT.

■1. Local time setting

Item	Description	Setting range
Specify time zone Set whether to specify the time zone in the clock data of the GOT.		Selected/Not selected <default: not="" selected=""></default:>
Time zone	When selecting [Specify time zone], set the time zone.	GMT-12:00 to GMT+13:00/Custom <default: gmt+9:00=""></default:>
Time difference from GMT	When selecting [Custom] for [Time zone], set the time difference based on GMT.	Hour: -12 to 13 Minute: 0, 15, 30, or 45 <default: 0="" hour="" minute=""></default:>

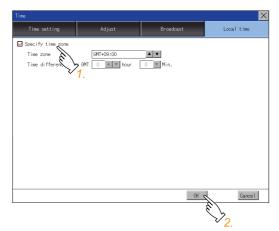
■2. Display operation of the local time

GOT basic setting				
Utility main menu X 007 basic set Ext. func. set Maintenance Monitor Data mg.				
Display Language Unique info IP address IP filter setting				
Greenaktor 194111 1955 Note				
Touch [Time].	Time (Local time)			
01/01/2000 00:44137 Langunge	Time			×
	Time setting	Adjust	Broadcast	Local time
	☐ Specify time zone Time zone Time difference from GM	GMT+09:00	▲ ▼ ○ ▼ Min.	
			Set the I	ocal time.
			OK	Cance 1

■3. Setting procedure for the local time

(1) Specify time zone

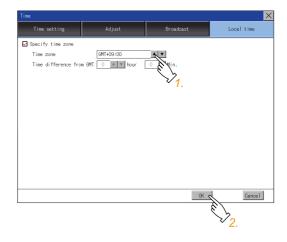
Step 1. To set the time zone, select [Specify time zone].



Step 2.Touch the [OK] button to display a restart confirmation dialog.Restart the GOT to operate with the new setting.If touch the [Cancel] button, the changed settings are canceled and the screen returns to the Main Menu.

(2) Time zone

Step 1. Touch the up or down button on the right side of the time zone entry box to change the setting.

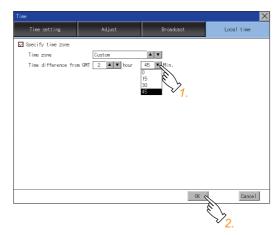


 Step 2.
 Touch the [OK] button to display a restart confirmation dialog.

 Restart the GOT to operate with the new setting.
 If touch the [Cancel] button, the changed settings are canceled and the screen returns to the Main Menu.

(3) Time difference from GMT

Step 1. To change the setting of [hour], touch the up or down button on the left side of [hour].
 To change the setting of [Min.], touch the pull-down menu button on the left side of [Min.] and select an item from the list.



Step 2. Touch the [OK] button to display a restart confirmation dialog.
 Restart the GOT to operate with the new setting.
 If touch the [Cancel] button, the changed settings are canceled and the screen returns to the Main Menu.

POINT

(1) When connecting to an external device which does not have clock function

If the GOT is connected to an external device (such as a PLC or microcomputer) that has no clock function, setting [Adjust] or [Broadcast] does not synchronize the clock data between the GOT and external device.

For the list of the PLCs having the clock function, refer to the following.

GOT2000 Series Connection Manual for the controller used

For details of [Adjust] and [Broadcast], refer to the following.

GT Designer3 (GOT2000) Screen Design Manual

(2) Time setting and battery

The GOT built-in battery is not connected to the GOT at factory default.

To use the time notification function, connect the GOT built-in battery and then configure the time setting.

For information on how to connect the GOT built-in battery, refer to the following.

GOT2000 Series User's Manual (Hardware)

(3) Time display

The GOT displays the current time to which the local time setting is reflected. For the local time setting, refer to the following.

➡ 2.9.5 Local time

(4) Changing times

If you have changed the present time of the GOT where the time setting function or the time notification function was being used, the new time setting will be written to the PLC. Thus, you can change the time of the PLC from the GOT even when the time setting function

is being used.

For details of [Adjust] and [Broadcast], refer to the following.

Image: GT Designer3 (GOT2000) Screen Design Manual

2.10.1 Controller setting

Configure controller settings.

The items which can be set are shown below. When each item part is touched, the respective setting becomes possible.

Function	Description
Assign Ethernet I/F	Change the assignment of channel No. and communication driver name of the device connected using the Ethernet interface.
Channel-Driver assign	Change the assignment of channel No. and communication driver name.
Channel no. (Ch No.) setting	Set the channel numbers of the communication interface (Standard interface/Extend interface).
5 V power supply	When connecting a controller to the RS-232 interface, whether to supply 5 V DC power or not to the controller through 9 pins can be selected.
Communication Detail Setting	Set communication parameters of communication devices.

ale set E-t. func. set Maintonnoe Monitor Data me.			
A CONTRACTOR OF	Controller		
0.00144157 Language	Communication	setting	×
	Standard I/F	ChNo. Interface/Unit name	Driver Serial(MELSEC)
		I/F-2 0 ▼ RS232 □5V supply I/F-3 9 ▼ USB	None Host (PC)
		I/F-4 Ethernet	192.168.3.18
	Extend I/F	1st 2 V GT15-QBUS	Q BUS
		2nd 0 🔻 None	None
		3rd 0 🔻 None	None
	Definition of O:None 9:PC connectio	1-4:FA device connection 5-8:Ex	kternal device
	Assign Ethernet	Channel-Driver OK C	ancel Apply
	I/F	assign 0	ALAAN VALAN

2.10.3 Controller contents

4) Communication setting \times ChNo. Interface/Unit name Driver -5) Serial(MELSEC) Standard I/F I/F-1 1 T RS422/485 1/F-2 0 🔻 RS232 □5V supply None 1/F-3 9 🔻 USB Host(PC) 1/F-4 Ethernet 192.168.3.18 2) Extend I/F 1st 2 🔻 GT 15-QBUS Q BUS 2nd 0 🔻 None None 3rd 0 ▼ None None 3) Definition of ChNo. 1-4:FA device connection 5-8:External device 0:None 9:PC connection A:Other connection Assign Ethernet Channel-Driver ПK Cancel 6) 1)

This section describes setting items and display contents for a controller.

1) Channel-Driver assign

· Assignment of communication drivers to channels

Communication drivers installed in the GOT can be assigned to channels. Even without setting [Controller Setting] on GT Designer3, communication with controller is available by assigning channel No. with this function.

■ 2.10.4 ■2. Channel-Driver assign operation

 Changing the assignment of communication drivers to channels Without using GT Designer3, the assignment of communication drivers to channels can be changed. When change a communication driver, the alternative communication driver has to be installed in GOT in advance.

2) Standard interface display box

The standard communication interfaces of the GOT are displayed. There are the following 4 types.

RS-232	For communicating with a controller
RS-422/485	For communicating with a controller
USB (Device)	For communicating with a personal computer (GT Designer3)
Ethernet	For communicating with a personal computer (GT Designer3) or a controller

3) Extension interface display box

The name of the unit installed in the extension interface is displayed. (Displays [None] when any unit is not mounted.) For details of each unit, refer to the following.

GOT2000 Series User's Manual (Hardware)

4) Channel number specification menu box

Set the channel number used for a standard interface or extension interface. For drivers that can be assigned for channels, refer to (5) in this section.

0	Set when the communication interface is not used.	
4 += 4	Set when connecting to a controller.	
1 to 4	(Except a barcode reader, an RFID controller, and a personal computer)	
5 to 8 ^{*1*2}	Set when connecting to a barcode reader, an RFID controller or a PC.	
- *1	Set when connecting to a personal computer (GT Designer3).	
9 ^{*1}	When the USB interface is used, the channel number is fixed to [9].	
	Set this item when using the following functions.	
	Gateway function	
	MES interface function	
	Ethernet download	
	Report function	
	Hard copy function (for output to a printer)	
	Video display function	
•	RGB display function	
A	RGB output function	
	External I/O function	
	Operation panel function	
	Sound output function	
	Multimedia function	
	Remote personal computer operation function	
	VNC server function	
	Wireless LAN connection function	
_	When the Ethernet communication unit is used, the channel number is fixed to [-].	

- *1 The channels cannot be assigned with the Ethernet I/F assignment.
- *2 The same device cannot be used for Ch No.5 to Ch No.8 simultaneously.
 - For restrictions on external devices, refer to the following.
 - GOT2000 Series Connection Manual for the controller used
 - GT Designer3 (GOT2000) Screen Design Manual

5) Communication driver display box

The name of the communication driver assigned to a channel or the communication driver set in the controller setting of GT Designer3 is displayed.

For details of drivers to be displayed, refer to the following.

- GOT2000 Series Connection Manual for the controller used
- Honora (GOT2000) Screen Design Manual
- Display [None] in the driver display box in case of the followings.

• The communication driver is not installed.

- In the channel number specification menu box, [0] is set.
- · The type of the communication unit mounted on the extension interface does not correspond to the set
- communication driver.

For how to set the communication driver, refer to the following.

■ 2.10.4 ■2. Channel-Driver assign operation

6) Assign Ethernet I/F

The communication settings for the Ethernet connection can be made. Ethernet I/F Assignment can assign up to four channels per interface.

➡ 2.10.4 ■1. Assign Ethernet I/F operation

POINT

Precautions for communications between GOT and controller

- (1) Installing a communication driver and downloading communication setting data
 - To communicate with a controller, perform the following to the communication interface
 - 1) 1) Install a communication driver (up to four drivers).
 - 2) Assign a channel number and the communication driver to the communication interface.
 - 3) Download the project data including the setting configured in step 2) above.

I/F:	Extend I/F(1st)
Driver:	Serial(MELSEC)
Detail Setting	Serial(MELSEC) Multidrop(Slave) CC-Link(G4)

Refer to the following for details.

 GOT2000 Series Connection Manual for the controller used GT Designer3 (GOT2000) Screen Design Manual

(2) When the communication setting data is not downloaded.

The GOT automatically assigns the installed communication driver in the order of 1) to 3) as follows.

(This automatic assignment is applied to the extension interface only.)

Communication	setting					×	
		ChN	o.	Interface/Unit na	ame	Driver	
Standard I/F	I/F-1	1	v F	8422/485	Serial(ME	LSEC)	
	1/F-2	0	▼ F	XS232 □5V supp	ly None		
	I/F-3	9	₹ l	ISB	Host (PC)		
	I/F-4		E	thernet	192.168.3	.18	
Extend I/F	1st	2	v (GT 15-QBUS	Q BUS		-1
	2nd	0	V N	lone	None		-2
	3rd	0	V N	lone	None		-3
Definition of 0:None 9:PC connectio Assign Eternet 1/F	1– n		her	ice connection 5	5-8:External dev	rice	

- 1): ChNo.1, Communication driver installed at 1st
- 2): ChNo.2, Communication driver installed at 2nd
- 3): ChNo.3, Communication driver installed at 3rd
- (a) After communication driver is assigned automatically.

When saving the settings to the GOT with [OK] button after the automatic assignment of communication driver, automatic assignment will not be performed at the next time and after.

(b) Priority against [Controller Setting] of GT Designer3

If download the communication settings to the GOT with GT Designer3 after the automatic assignment, the GOT will operate with the communication settings of GT Designer3. (The GOT operates with the latest communication settings.)

(3) When the communication driver does not match with the unit that is installed in the GOT

An error is displayed on the GOT when displaying [Communication setting]. If an error is displayed, confirm the combination of the communication driver and communication unit.

Refer to the following manual for the combination.

GOT2000 Series Connection Manual for the controller used

■1. Assign Ethernet I/F operation

The following describes how to operate the Ethernet I/F assign. The setting operation is same as that of the communication setting screen.

Step 1. Touch the [Assign Ethernet I/F] button in [Communication setting].

Communication	setting				×				
		ChN	o.	Interface/Unit name	Driver				
Standard I/F	1/F-1	1	۳	R\$422/485	Serial(MELSEC)				
	1/F-2	0	۳	RS232 🔲 5V supply	None				
	1/F-3	9	۳	USB	Host (PC)				
	1/F-4			Ethernet	192.168.3.18				
Extend I/F	1st	2	۳	GT 15-QBUS	Q BUS				
	2nd	0	v	None	None				
	3rd	0	V	None	None				
Definition of CNNo.									
	1-			vice connection 5-8:E connection	xternal device				
0:None	n Charr	A:Ot	her	connection	xternal device				

- *Step 2.* After the screen shown below is displayed, touch the channel number specification menu BOX when changing the channel number.
 - 3. Channel number setting operation

Ethernet I/F assignm	ent			×
	ChNo.	Interface/Unit name	ie E	Driver
Ethernet I/F	1 K E	thernet	E71 Connec	stion
	0	ernet	None	
	2	et	None	
	-3 E	<u>></u> /	None	
	A			
Dufficiation of Child				
Definition of ChNo.		tavice connection	0.PC compati	~
		device connection	9:PC connecti	on

- Step 3. For changing the parameter settings, touch the driver display BOX.
 - ➡ 2.10.5 Communication detail setting

Ethernet I/F assignme	ent					\times
	ChN	ο.	Interface/Unit nam	ne Dr	iver	
Ethernet I/F	1	v	Ethernet	E71 Connect	ion 💊	_
	0	v	Ethernet	None		
	0	V	Ethernet	None	- 6. 7	\sum
	0	v	Ethernet	None		.7
Definition of ChNo. 0:None A:Other connection	1-4	:FA	device connection	9:PC connection	n	

Step 4. If touch the [OK] button, the changed settings are reflected and the screen returns to the [Communication setting] screen.

If touch the [Cancel] button, the changed settings are canceled and the screen returns to the [Communication setting] screen.

Step 5. In the [Communication setting] screen, touching the [OK]/[Cancel]/[×] button restarts and operates the GOT with the changed settings.

2. Channel-Driver assign operation

The following describes how to operate the Channel-Driver assign. The following description uses an example of changing the serial communication connection to the direct CPU connection by changing the communication driver from [AJ71QC24, MELDAS C6*] to [Serial(MELSEC)].

POINT

Before the operation

The GOT automatically restarts after executing this setting. If project data has been downloaded, the GOT starts monitoring of the controller after restarting. Execute this setting after carefully confirming the safety.

Step 1. Install the communication driver [Serial(MELSEC)] to the GOT.

(Download of [Controller Setting] from GT Designer3 is not required.)

After installing communication driver, touch the [Channel Driver assign] button in [Channel-Driver Assign].

Communication	setting	2			×					
		CHN	ο.	Interface/Unit name	Driver					
Standard I/F	1/F-1	1	۷	R\$422/485	Serial(MELSEC)					
	1/F-2	0	۷	RS232 5V supply	None					
	1/F-3	9	W	USB	Host (PC)					
	1/F-4			Ethernet	192.168.3.18					
Extend I/F	1st	2	۷	GT15-QBUS	Q BUS					
	2nd	0	۳	None	None					
	3rd	0	v	None	None					
	1-			vice connection 5-8:E connection	ternal device					

Step 2. Touch the [Change assignment] button on the displayed screen as shown below.

Channe 1-dr i v	ver assign			×
FA device c	onnection			
CH1	Serial(MELSEC)		r	
CH2	Q BUS		·	
CH3	E71 Connection		r	
CH4	None		·	
Ext. device	connection			
CH5	None		·	
CH6	None		r	
CH7	None		1	
CH8	None		·	
		0K.	Cance 1	Apply

Step 3. As the communication driver ([Serial(MELSEC)]) installed in the GOT is displayed, touch it.

FA device connection CH1 Serial(MELSEC) CH2 DEUS CH3 E71 Connection CH4 None CH4 None Ext. device (D GUNS E71 Connection Serial (MELSEC) CH6 None CH7 None CH7 None CH7 None CH8 None V	Channe I-d	river assign			×
CH2 0 BUS ¥ CH3 E71 Connection ¥ CH4 None ¥ Mone ¥ Ext. device 0 BUS CH5 E71 Connection Serial (MELSEE) CH6 OH6 None ¥	FA device	e connection			
CH3 E71 Connection ¥ CH4 None ¥ Ext. device 0 RIS F CH4 None ¥ Obs Serial (MELED) F CH6 None ¥ CH7 None ¥	CH1	Serial(MELSEC)		r	
CH4 None ¥ None ¥ None ¥ Ext. device () Consection E71 Consection \$ CH5 E71 Consection \$ CH6 None ¥ CH7 None ¥	CH2	Q BUS		r i	
Bono Ext. device (0.8) CH5 E71 Connection Serial (MELSED) CH6 None ¥ CH7 None	CH3	E71 Connection		7	
Ext. device (0 BUS DF5 E71 connection Serial (0ELEC) DH6 None ¥	CH4	None		7	
OH5 Serial(MELSEC) OH6 None ¥ OH7 None ¥	Ext. devi	ce Q BUS			
CH6 None CH7 None	CH5				
	CH6			7	
CH8 None 🔻	CH7	None		7	
	CHS	None		r	
			OK	Cance 1	

Step 4. The screen returns to the [Channel-Driver assign] screen. If touch the [OK] button, the changed settings are reflected and the screen returns to the [Communication setting] screen.
 If touch the [Cancel] button, the changed settings are canceled and the screen returns to the [Communication setting] screen.

Chapped and	river assign			X
channer-d	river assign			
FA device	connection			
CH1	Serial(MELSEC)		•	
CH2	Q BUS			
CH3	E71 Connection			
CH4	Serial(MELSEC)			
Ext. devi	ce connection			
CH5	None			
CH6	None			
CH7	None			
CHB	None			
		0K	Cancel	Apply
		UN	Carlos I	CPPTy

Step 5. Confirm that the selected communication driver ([Serial(MELSEC)]) is assigned.

Communication	setting					×			
		CHA	b.	Interface/Unit name		Driver			
Standard I/F	1/F-1	1	v	R\$422/485	Serial(ME	LSEC)			
	1/F-2	4	v	RS232 🔲 5V supply	Serial(ME	LSEC)			
	1/F-3	9	W	USB	Host (PC)				
	1/F-4			Ethernet	192.168.3	. 18			
Extend I/F	1st	2	v	GT 15-QBUS	Q BUS				
	2nd	0	۳	None	None				
	3rd	0	v	None	None				
Definition of ChNo.									
0:None	1-			vice connection 5-8:E	kternal dev	rice			
	1- n		her	connection	kternal dev	rice			

Step 6. After the confirmation, if touch the [OK]/[Cancel]/[×] button, the GOT restarts and operates with the changed settings.

■3. Channel number setting operation

Step 1. Touch channel number specification menu BOX to be set.

communicación	setting	2				×		
		CHN	b.	Interface/Unit name		Driver		
Standard I/F	1/F-1	1	V	R\$422/485	Serial(ME	_SEC)		
	1/F-2	0	V	RS232 🔲 5V supply	None			
	1/F-3	9	W	USB	Host(PC)			
	1/F-4			Ethernet	192.168.3	. 18		
Extend I/F	1st	ø	▼	GT 15-QBUS	None			
	× 3	0		None	None			
	Grd	1		None	None			
None None 1 None 3 4 5 6 7 8 8 4								
Definition of O:None 9:PC connectio	1-	6 7 8 4 4:FA		vice connection 5-8:E connection	xternal dev	ice		

- *Step 2.* The cursor for the channel number specification menu BOX is displayed. Simultaneously the keyboard for a numerical input is displayed.
- Step 3. Input the channel number from the keyboard and touch [Enter] key, and the value is defined. Simultaneously, the name of the communication driver corresponding to the channel number assigned by GT Designer3 is displayed in the driver display BOX.



4. Communication detail setting switching operation

- Step 1. If the driver display BOX is touched on the communication setting screen or Ethernet I/F assign screen, the screen switches to the detailed setting screen of the related controller device.
 - 2.10.5 Communication detail setting

■ 5. 5V power supply setting operation

When connecting a controller to the RS-232 interface, whether to supply 5 V DC power or not to the controller through 9 pins can be selected.

Thus, it is not necessary to connect an external power supply.

Step 1. Touch [5V supply].

Communication setting			×
Standard I/F Setting	Assign Ethernet I/F	Channel-Driver assign	
ChNo. RS232 5V sur	ply ChNo.USB		
	24 9 Hos	t(PC)	
ChNo. RS422/48	ChNo. Eth		
0 None Extend I/F Setting	Non	ê	
Externa IVI occurrig			
Extend I/F-1	Extend I.	/F-2	
1st ChNo. GT15-750BUSL 2 0 BUS	ChNo. N	one	
2nd ChNo. None 0 None	ChNo. N	one	
3rd ChNo. None		one	
	U 114		
Definition of ChNo. O:None 5-8:External de	evice *:Other.conne	otion	
1-4:FA device connection 9:F		ceron	
		0K Cance	1
		ounoo	

Step 2. Select whether 5 V power supply is supplied or not.

If touch the [OK] button, the changed settings are reflected and the screen returns to the [Communication setting] screen.

If touch the [Cancel] button, the changed settings are canceled and the screen returns to the [Communication setting] screen.

Communication setting:RS232 5V power supply		×
5V power supply		
	OK	Cancel

Step 3. After setting completion, [*] is displayed indicating that 5V power supplying setting is on.

Communication setting			×
Standard I/F Setting	Assign Ethernet I/F	Channel-Driver assig	n
ChNo. RS232 5V supp 1 A/QnA/L/QCPU,L/QJ71C2	1y CHNo. USB 14 9 Host	(PC)	
ChNo. RS422/485 0 None	ChNo. Ethe None	rnet	
Extend I/F Setting			
Extend I/F-1 1st ChNo.: GT15-750BUSL 0 0 BUS	Extend 1/ ChNo.No 0 No	ne	
2nd ChNo. None 0 None	ChNo. No 0 No		
3rd ChNo. None 0 None	ChNo. No 0 No		
Definition of ChNo. 0:None 5-8:External dev 1-4:FA device connection 9:PC	vice *:Other connec Connection	tion	
		Can:	cel

Step 4. If touch the [OK]/[Cancel]/[×] button, the GOT restarts and operates with the changed settings.

■6. Host (PC)/Host (Modem) settings

The following describes how to set [Host (PC)] and [Host (Modem)]. When setting [Host (PC)] for [PC connection type], the following settings are not required. Set as follows only when selecting [Host (Modem)].

Communication settin	g:Detail setting
PC connection type	Host(Modem)
Transmission Speed	115200 BPS
Data Bit	8 BIT
Stop Bit	1 BIT
Parity	Ddd
Retry	1 TIMES
Timeout Time	5 SEC.
Init. AT command	AT&FE0%C0&K0&D0W2S0=1
Modem operation	Init. Disc.
	Default OK Cancel

Item	Description	Setting range
PC connection type	The connecting method to the personal computer can be selected.	Host (PC)/Host (Modem) Default: Host (PC)
Transmission Speed	Set the transmission speed for communication.	9600/19200/38400/57600/115200 Default: 115200
Data Bit	Set the data bit for communication.	7/8 <default: 8=""></default:>
Stop Bit	Set the stop bit for communication.	1/2 <default: 1=""></default:>
Parity	Set whether to check the parity for communication and select the format to check.	Odd/Even/None <default: odd=""></default:>
Timeout Time (SEC.)	Displays the timeout time (sec.) for communication.	<default: (fixed)="" 5=""></default:>
Retry (TIMES)	Displays the number of retry (times) for communication.	Default: 1 (fixed)
Init. AT command	Set the AT command to initialize the modem.	English one byte characters within 255 characters ^{*1} Default: AT&FE0%C0&K0&D0W2S0=1
Modem operation	Touch the [Init.] button to initialize the modem. Touch the [Disc.] button to disconnect the line.	-

*1 The maximum number of characters of the AT command depends on the specifications of the modem. When the maximum number of characters of the AT command which can be used for a modem is less than 255, the initializing command is set according to the specifications of the modem.

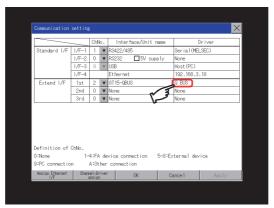
1 .	Communication	detail setting
------------	---------------	----------------

Function	Description
Communication parameters setting	Set various communication parameters of communication devices. The settable parameters differ according to the communication device.
Keyword setting	For the FX series PLCs, key word for protecting program in the PLC can be set.
Key word deleting	For the FX series PLCs, key word for protecting program in the PLC can be deleted.
Key word protection cancel	For the FX series PLCs, the program protection status in the PLC can be cancelled.
Keyword protection	For the FX series PLCs, the cancelled program protection status in the PLC can be returned to the protection status again.

2. Display operation of the communication detail setting

(1) Communication setting

Step 1. Touch the target communication driver display box to set the communication parameter.



POINT

Communication using the Ethernet communication unit

If the Ethernet communication unit is assigned to an extension interface, the corresponding communication detail setting cannot be displayed.

Step 2.The screen switches to the detail setting screen.Set communication parameters from this screen.Refer to the following for the setting change operation.

1.3.3 Basic operation of settings change

				×
Q BUS	_			
Stage No.		1		
Slot No.		0		
Monitor Speed		High(Norma))	
Timeout Time		12 SE	c.	
	فحسكم			
	فسيم			

POINT

(1) Communication parameter setting by GT Designer3

Set the communication parameters for each communication driver at [Communication Settings] in [Controller Setting] of GT Designer3.

When change the communication parameters after downloading project data, change the setting at communication detail setting of GOT.

 GOT2000 Series Connection Manual for the controller used GT Designer3 (GOT2000) Screen Design Manual

(2) For the Ethernet multiple connection

Touch the driver display BOX of the Ethernet connection, and then the communication detail setting screen of Channel No. 1 is displayed.

(2) Ethernet I/F assignment

Several drivers are assigned to the same Ethernet interface. However, only one GOT IP address is assigned per interface.

By changing the settings of one interface, the GOT IP address, GOT port No. download, default gateway and subnet mask settings of other drivers, which are assigned to the same interface, are also changed.

Step 1. Touch the [Assign Ethernet I/F] button in [Communication setting].

Communication setting							
		ChN	lo.	Interface/Unit name	Dr i	iver	
Standard I/F	1/F-1	1	۳	RS422/485	Serial(MELSE	EC)	
	1/F-2	0	۳	RS232 🔲 5V supply	None		
	1/F-3	9	Ψ	USB	Host (PC)		
	1/F-4		_	Ethernet	192.168.3.18	8	
Extend I/F	1st	2	v	GT 15-QBUS	Q BUS		
	2nd	0	v	None	None		
	3rd	0	T	None	None		
Definition of 0:None 9:PC connectio	ChNo. 1-	4:FA	de	vice connection 5-8:6			

Step 2. Touch the driver display BOX of the communication parameter to be set in the [Ethernet I/F assignment] screen.

Ethernet I/F assignment							
	ChNo.	. Interface/Unit n	ame	Driver			
EthernetI/F	1	 Ethernet 	E71 Conne	ection)			
	0	Ethernet 🖌	None				
	0	Ethernet	None				
	0	 Ethernet 	None				
Definition of ChNo. O:None A:Other connection	1-4 :F	7A device connection	9:PC connect	ion			

- Step 3.The screen switches to the detail setting screen.Set communication parameters from this screen.Refer to the following for the setting change operation.
 - 1.3.3 Basic operation of settings change

Detail setting				×
E71 Connection	_			
GOT NET No.		1		
GOT No.		1		
GOT Ethernet	settings 19	92.168.3.	18	
GOT Port No.		5001		
Retry		3 🔻 T	MES	
Startup Time		3 SE	ю.	
Timeout Time		3 SE	ю.	
Delay Time		0 m:	5	
	L'			
	Default	ОК	Cance 1	Apply

POINT

Communication parameter setting by GT Designer3

Set the communication parameters for each communication driver at [Communication Settings] in [Controller Setting] of GT Designer3.

When change the communication parameters after downloading project data, change the setting at communication detail setting of GOT.

- GOT2000 Series Connection Manual for the controller used
- GT Designer3 (GOT2000) Screen Design Manual

3. Display contents of communication detail setting

The contents of communication detail setting varies according to driver type.

This section explains setting items different from the communication detail setting of GT Designer3. For setting items other than described in this section, refer to the following.

- GOT2000 Series Connection Manual for the controller used
- GT Designer3 (GOT2000) Screen Design Manual

Communication settin A/QnA BUS	g:Detail setting			X
Stage No.				
Slot No.				
Timeout Time	3 SEC.			
		Default	OK	Cancel
				Janoor

For bus (A/QnA)

(1) Keyword registration, deletion and protection delete MELSEC-FX

Communication setting:Detail setting 🛛 🔀
Transmission Speed 115200 BPS
Retry O TIMES
Timeout Time 3 SEC.
Delay Time 0 ms Keyword
Regist Delete Clear Protect
Default OK Cancel

(a) Registration

Register key words.

- *Step 1.* Touching the [Regist] key pop-up displays the keyboard for inputting a keyword.
- *Step 2.* Input a keyword and touch the [Enter] key, and the registration completes. Up to 8 characters can be set for keyword with using A to F and 0 to 9.

Keywor Pleas	rd se inp	ut key	yword.			X		
2nd	Registration concliti All Protect							
2.1.4	7	8	9	A	B			
	4	5	6	C	D			
	1	2	3	E	F			
	0	AC	Del	Ent	er			

PLC connected	Setting				
PEC connected	When registering keyword and 2nd keyword	When registering keyword only			
FX CPU compatible with 2nd keyword	[Registration condition] ^{*1} can be selected.	· · · · · · · · · · · · · · · · · · ·			
FX CPU not compatible with 2nd keyword	-	[Registration condition] ^{*1} cannot be selected.			

*1 The access restriction can be selected from [Read/Write Protect], [Write Protect], and [All Protect]. For access restriction on each setting, refer to the following manual.

The User's Manual of the FX series PLC you are using

POINT

(1) How to select a keyword protection level

For equipments that are allowed to operate the FX PLC on line, 3 levels of protection level can be set.

When performing monitoring or changing settings with any on-line equipment is required, set password with referring to the following.

(a) When setting keyword only

Select a protection level by the initial letter of keyword.

All operation protect:	Set a keyword with initial letter of "A", "D" to "F", or "0" to "9".
------------------------	--

Read/Incorrect write protection: Set a keyword with initial letter of "B". Incorrect write protect: Set a keyword with initial letter of "C".

(b) When setting keyword and 2nd keyword

Select a protection level by [Registration condition].

(2) Monitoring availability at each keyword protection level

Device monitoring availability at each keyword protection level is shown in the following.

ltem		When setting keyword only			When setting keyword and 2nd keyword			Keyword not
		All operation protect	Read/ Incorrect write protection	Incorrect write protect	All on-line operation protect	Read/ write protect	Write protect	registere d or protection canceled
Monitoring devices		0	0	0	×	0	0	0
Changin g devices	T, C set value and file register (D1000 and the following)	×	×	×	×	0	0	0
	Other than the above	0	0	0	×	0	0	0

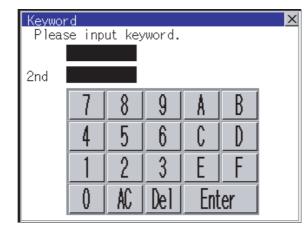
(3) Difference between all online operations prohibition and all operations prohibition When specifying All online operations prohibited, displaying devices and inputting data with a programming tool or GOT are all prohibited.

When all operations are prohibited, displaying devices and inputting data with the GOT are enabled while all operations using a programming tool are prohibited.

(b) Deletion

Delete a registered keyword.

- Step 1. Touching the [Delete] key pop-up displays the keyboard for inputting a keyword.
- Step 2. Input a key word and touch the [Enter] key, and the keyword is deleted.



PLC connected	Setting			
FX CPU compatible with 2nd keyword	Input a keyword to delete.			
FX CPU not compatible with 2nd keyword	Input the keyword to delete only into the keyword. The 2nd keyword will be ignored.			

(c) Protection delete

Delete the protection by key word in order to access to a FX PLC to which a key word is registered.

Step 1. Touching the [Clear] key pop-up displays the keyboard for inputting a keyword.

Step 2. Input a keyword and touch the [Enter] key to delete the protection.

Keywor	d e inn	ut key	ulor d			
i icus	se inp	ut ney	word.			
2nd						
	7	8	9	A	B	
	4	<u> </u>	6	<u> </u>		
	<u>т</u>					
		2		Ľ		
	0	AC	Del	Ent	er	

PLC connected	Setting		
FX CPU compatible with 2nd keyword	Input a keyword to delete the protection.		
FX CPU not compatible with 2nd keyword	Input a keyword to delete only into the keyword. The 2nd keyword will be ignored.		

(d) Protection

Reset the keyword in which protection has been deleted to the protection status.

Step 1. Touch the [Protect] key, and the keyword goes to a protected status.

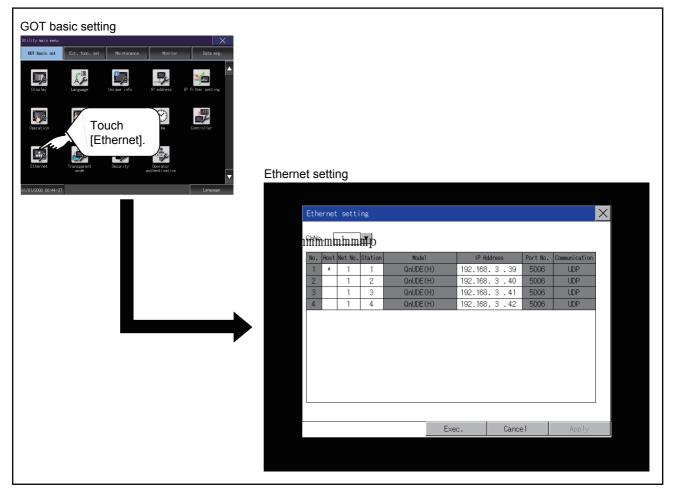
2.11 Ethernet Communication

2.11.1 Ethernet setting

The Ethernet setting, which has been configured with GT Designer3, can be checked. The host station setting, network number, station number, and IP address are changeable. For the Ethernet setting, refer to the following.

GOT2000 Series Connection Manual for the controller used

2.11.2 Display operation of the Ethernet setting



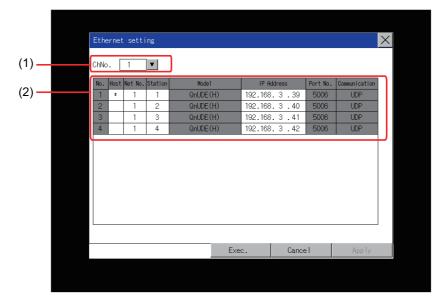
If the Ethernet setting is changed with applicable GOT special registers (GS), the GOT may not operate with the new Ethernet setting displayed in the utility.

Therefore, restart the GOT to reflect the new setting.

GOT BASIC SETTING

■1. Display contents of Ethernet setting

The following describes the setting items and the display contents of the Ethernet setting.



(1) Channel select tab

Channels can be switched. Switching to the channel which does not have the Ethernet setting is not available. [*] is displayed on the right side of the channel whose setting is changed.

(2) Ethernet setting items

The contents of the Ethernet setting configured in GT Designer3 are displayed. Changing [Host], [Net No.], [Station No.] and [IP Address] are available.

- 2. Change of host
- 3. Change of Net No.
- 4. Change of station No.
- ➡ ■5. Change of IP address

POINT

(1) How to cancel the change of the setting in the [Ethernet setting] screen.

Cancel the settings changed in the [Ethernet setting] screen with the [Restore default settings] button.

The changed settings remain until they are canceled with the [Restore default settings] button.

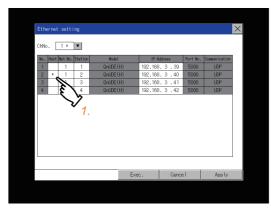
The changed settings are not canceled even if writing the project data or system application to the GOT.

When the project data is written to the GOT without canceling the changed settings, those changed settings are reflected to the Ethernet setting of the written project data.

(If the written project data does not have a channel with same Ethernet settings as that of the channel changed in [Ethernet setting] screen, the changed settings are not reflected.)

■2. Change of host

Step 1. Touch the device to be set as the host.

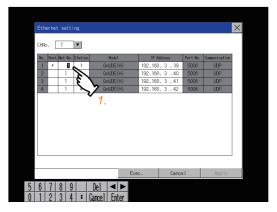


Step 2. Touch the [OK] button to restart the GOT to operate with the changed settings. TTouch the [Cancel] button to cancel the changed settings and return to the [Controller] screen.

Ethe	rnet	setti	ng					Х
ChNo	. [1 *	¥					
No.	Host	Net No.	Station	Nodel	IP Address	Port No.	Communication	
1		1	1	QnUDE(H)	192.168.3.39	5006	UDP	
2	8	1	2	QnUDE(H)	192.168.3.40	5006	UDP	
3		1	3	QnUDE(H)	192.168.3.41	5006	UDP	
4		1	4	QnUDE(H)	192.168.3.42	5006	UDP	
				Exe	c. 👞 Cance	1	App ly	
					i l			

■ 3. Change of Net No.

Step 1. Touch the Net No. to be changed, and input the network No. to be changed by the numeric keypad displayed.

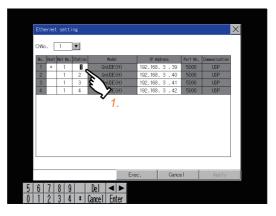


Step 2. Touch the [Enter] button and [OK] button to restart the GOT to operate with the changed settings. Touch the [Cancel] button to cancel the changed settings and return to the [Basic Setting] screen.

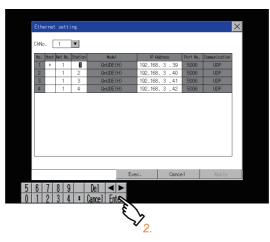
Ethe	rnet s	ettin	g					×
ChNo	. [1		v					
No.	Host Net	t No. S	tation	Mode1	IP Address	Port No.	Communication	
1		1	1	QinUDE(H)	192.168.3.39	5006	UDP	
2		1	2	QinUDE(H)	192.168.3.40	5006	UDP	
З		1	3	QinUDE(H)	192.168.3.41	5006	UDP	
4		1	4	QinUDE(H)	192.168.3.42	5006	UDP	
				Exe	c. Carce	21	Apply	
	7 1 4			Exe	c. Cano	2]	Apply	
6	7 8	9		Del	c. Cano	el	Apply	
6	7 8	9	*		c. Cano	2	Apply	

■4. Change of station No.

Step 1. Touch the station No. to be changed, and input the station No. of the destination Ethernet module to be changed by the numeric keypad displayed.

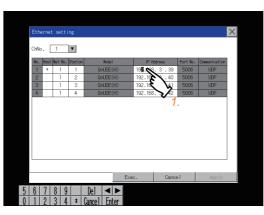


Step 2. Touch the [Enter] button and [OK] button to restart the GOT to operate with the changed settings. Touch the [Cancel] button to cancel the changed settings and return to the [Basic Setting] screen.

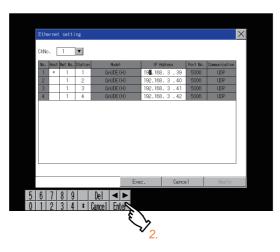


■5. Change of IP address

Step 1. Touch the IP address to be changed, input the destination IP address to be changed by the numeric keypad displayed.



Step 2. Touch the [Enter] button and [OK] button to restart the GOT to operate with the changed settings. Touch the [Cancel] button to cancel the changed settings and return to the [Basic Setting] screen.



2.12 Transparent Mode

2.12.1 Transparent mode setting

When using the multi-channel function, the channel No. of a controller to which the FA transparent function is executed can be set. For the multi-channel settings, refer to the following.

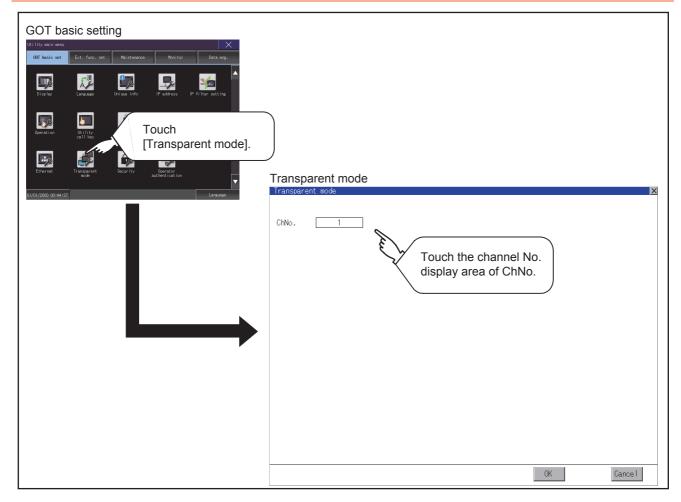
- GOT2000 Series Connection Manual (Mitsubishi Products) For GT Works3 Version1
- GT Designer3 (GOT2000) Screen Design Manual

Also, refer to the following for the FA transparent function.

-	GOT2000 Series	Connection Manual	(Mitsubishi Products) For	GT Works3 Version1
---	----------------	--------------------------	---------------------------	--------------------

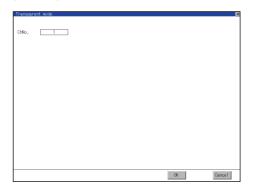
Function	Description	Setting range
ChNo.	The channel No. of a controller to which the FA transparent function is executed can be set.	1/2/3/4 <default: 1=""></default:>

2.12.2 Display operation of the transparent mode setting



2.12.3 Operation the transparent mode

Step 1. Touching the transparent ChNo. (numerical part) shown below, the keyboard is displayed. Input numerical value by the keyboard.



Step 2. If touch the [OK] button, the GOT restarts and operates with the changed settings. If touch the [Cancel] button, the changed settings are canceled and the screen returns to the Main Menu.

2.13 Security

2.13.1 Security level authentication

■1. Security level change functions

Authenticates the security level set by each object or screen switch. Refer to the following for the security level.

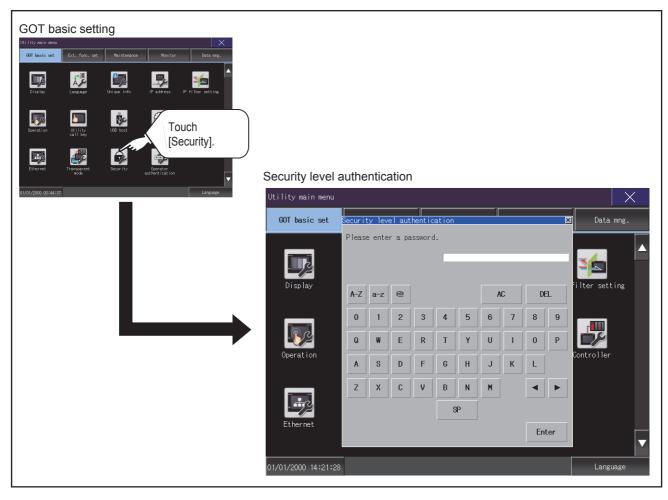
Security level setting	GT Designer3 (GOT2000) Screen Design Manual
Password setting	GT Designer3 (GOT2000) Screen Design Manual

POINT

Restrictions on screen display

The security level change screen cannot be displayed when project data do not exist in GOT. Change the security level after downloading the project data to GOT.

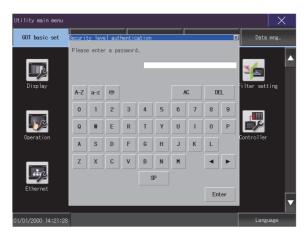
■2. Display operation of security level



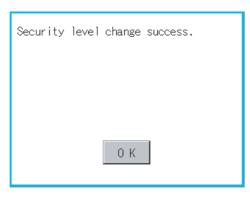
■3. Setting operation of security level

(1) Password input operation

Step 1. By touching [0] to [9], [A] to [F] key, the password of the changed security level is input. When correcting the input character, touch [Del] key to delete the correcting character and input the password again.



Step 2. After inputting password, touch the [Enter] key. When the password matches, the normal completion message is displayed.



When the password is not matched, displays the error message.

Password e	rror.	
	0 K	

- Step 3. If [OK] button is touched it returns to the password input screen again.
- Step 4. If [×] button is touched it returns to security setting screen.

POINT

About forgetting to return to the original level after changing security level temporarily When use GOT after temporarily changing the security level, do not forget to return the security level to the original level.

2 - 74

2.14.1 Operator management

■1. Operator management

(1) Operator management function

The function enables displaying a list of the operator information and adding, changing, or deleting the operator information to be used.

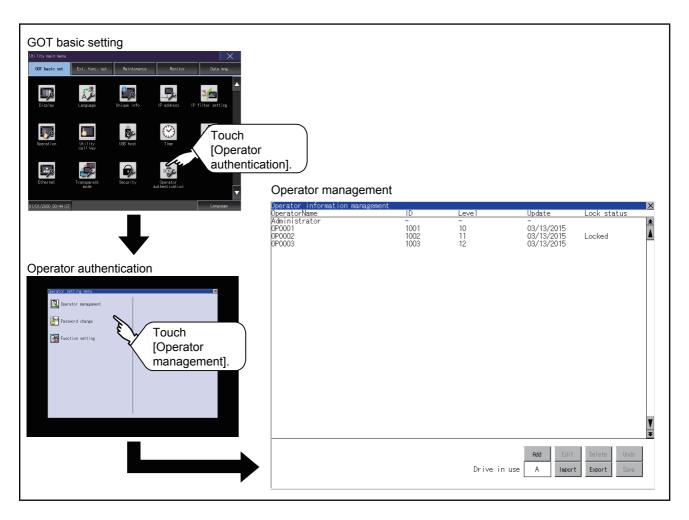
A password for operator authentication can be changed when the password is out of date.

Functions for the operator authentication (automatic logout time, authentication method, password expiration date, etc.) can be set.

For details of operator authentication functions, refer to the following.

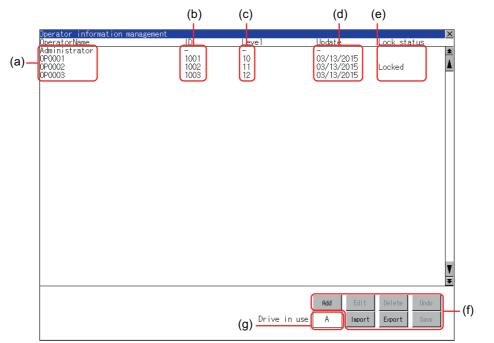
GT Designer3 (GOT2000) Screen Design Manual

Function	Description	Reference	
Operator management	Enables adding, editing, deleting, importing, and exporting the operator information.	(2) Display operation of operator management (4) Operator management operation	
Add operation	Add operator information to the GOT.	(5) Add operation	
Edit operation Edit the operator information stored in the GOT. Unlock an operator ID.		(6) Edit operation	
Deletion	Delete the operator information stored in the GOT.	(7) Deletion operation	
Undo	Restore the current operator information to the previous saved one.	(8) Undo operation	
Import operation	Import the operator information that is already exported to a CF card to the GOT.	(9) Import operation	
Export operation	Export the operator information stored in the data storage.	(10) Export operation	
Password change	Enables changing passwords to be used for login and logout in/out of the GOT.	■ 1. Password change	
Function setting	Set the automatic logout time, password expiration date, continuous failure count, and prohibition time.	■ 1. Function setting	



(3) Display example of operator management

(a) Operator information management screen



No.	Item	Description
(a)	Operator Name	Displays operator names.
(b)	ID	Displays operator IDs.
(C)	Level	Displays security levels for operators.
(d)	Update	Displays the last updated dates of the operator information.
(e)	Lock status	Displays the status whether the operator ID is locked.
(f)	Operation keys	Execution keys for each function
(g)	Drive in use	Displays and sets the storage location for imported and exported operator information. To switch the drive, touch the key. (A: Built-in SD card/B: USB drive/E: USB drive/F: USB drive/G: USB drive) drive) Only when the drive B, drive E, drive F, or drive G is installed on the GOT, the user can switch the drive.

(b) Operator information edit screen

Touch the [Add] button or touch the [Edit] button with the operator information selected on the Operator information management screen, and then the Operator information edit screen is displayed. The operator information can be edited.

Operator information edit	<u>د</u>
OperatorName OP0002	——(a)
Operator ID 1002	(b)
Level 11	(c)
Password [**********************************	(d)
Make a permanent password	(e)
Use ext. auth. ID	(f)
Ext.auth. ID	(g)
	(0)
Unlocked (h)	0K Cancel
(II)	UK Galibel

No.	Item	Description
(a)	Operator Name	The operator name to be edited is displayed or input an operator name to be added. (Up to 16 alphanumeric characters)
(b)	Operator ID	The operator ID to be edited is displayed or input an operator name to be added. (Setting range: 1 to 32766) The maximum number of registrations depends on the GOT model. • GT27, GT25: 1000 • GT23: 255
(c)	Level	The operator security level to be edited is displayed or input an operator security level to be added. (0 to 15)
(d)	Password	Input a password. (Up to 16 alphanumeric characters)
(e)	Make a permanent password	Switches the setting of the item disabled and enabled. (: Disabled : Enabled)
(f)	Use ext. auth. ID	Switches whether to use the external authentication ID.
(g)	Ext.auth. ID	The external authentication ID is displayed or input an external authentication ID. (Setting range: 4 to 32 alphanumerics ^{*1}) ■ 1. Function setting
(h)	Unlock	Unlock an operator ID.

*1 Since the key window is for hexadecimal format, the setting range can be input in the range of A to F or 0 to 9.

GOT BASIC SETTING

(4) Operator management operation

Step 1. Touch [Operator management] in the operator setting menu.

Operator setting menu	×
Operator management	
Password change	
Function setting	

Step 2. The Admin password authentication screen is displayed, and then input the administrator password. Character types to be input can be changed with touching the following buttons.

[A-Z]: Alphabet capital

[a-z]: Alphabet small letter

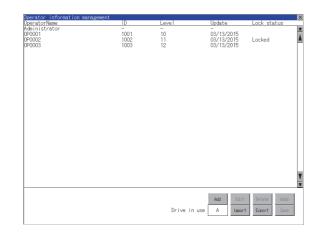
[0-9]: Numeric

When the input is completed, touch the [Enter] key.

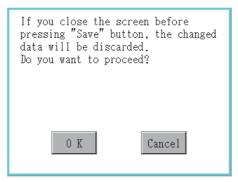
Admin	passw	ord	auth	enti	cati	on		X
Passwo	rd							
A-2 a-	z 0-9						AC	DEL
QI	E	R	T	Y	U	Ι	0	P
A S		F	G	H	J	K	L	
ZX	C	Ţ	B	N	Ĭ		Ent	:er

Step 3. When the administrator password is correctly input, the Operator information management screen in displayed.

For operation of operating switches, refer to the following.



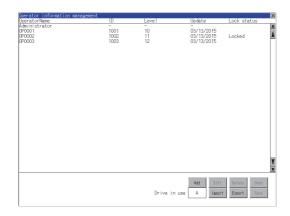
- [Add]
 - ➡ (5) Add operation
- [Edit]
 - ➡ (6) Edit operation
- · [Delete]
 - ➡ (7) Deletion operation
- [Undo]
 - ➡ (8) Undo operation
- [Import]
 - (9) Import operation
- [Export]
 - ➡ (10) Export operation
- Step 4. After all settings are completed, touch the [Save] button, and then the settings are saved.
- Step 5. If you touch the [x] button without touching the [Save] button, the dialog shown below is displayed.



(5) Add operation

Add operator information to the GOT.

Step 1. Touch the [Add] button.



Step 2. The Operator information edit screen is displayed, and then touch an item to be edited.

			197
1) -	Operator information edit		×
	OperatorName OP0005		
2) -	Operator ID 1		
3) -	 Level 1		
4) -	 Password		
5) -	🗕 🔽 Make a permanent password		
6) -	 Use ext. auth. ID		
7) -	 Ext.auth. ID 12345678		
,			
	Unlocked	OK	Cance 1

1) OperatorName

Touch the OperatorName, and then the Operator name input dialog is displayed. Input an operator name. Character types to be input can be changed with touching the following buttons.

[A-Z]: Alphabet capital [a-z]: Alphabet small letter

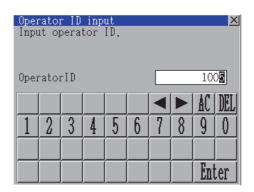
[0-9]: Numeric

When the input is completed, touch the [Enter] key.

Oper Inpu	rator it oj	r nai perat	<u>ne i</u> tor	nput name	•				X
Oper	rato	rNam	e	[OF	2000	
A-Z	a-z	0-9						AC	DEL
Q	Ĭ	E	R	Τ	Y	J	Ι	0	P
Å	S		F	G	H	J	K	L	
2	X	C	Ţ	₿	N	I		Ent	ter

2) OperatorID

Touch the Operator ID, and then the Operator ID input dialog is displayed. Input an operator ID. When the input is completed, touch the [Enter] key.



3) Level

Touch the level, and then the Operator level input dialog is displayed. Input an operator level. When the input is completed, touch the [Enter] key.

When the level of the operator being login is changed during editing the operator information, a new level is not reflected until you log out of the GOT once and log in the GOT again.

Oper Inpu	rator it og	r le pera	vel tor	inpu leve	t 1.				×
Leve	el								
								AC	DEL
1	2	3	4	5	6	7	8	9	0
								En	ter

4) Password

For changing passwords during editing, touch the password.

The New password input dialog is displayed, and then input a password.

When the input is completed, touch the [Enter] key.

When the password input is completed, the New password input confirmation dialog is displayed. Input the same password.

New Inpu	pas: it a	sword new	d in pas	put swor	d.				×
New	pas	swore	ł	[_	_	_		
A-Z	a-z	0-9						AC	DEL
Q	Ĭ	E	R	Τ	T	J	Ι	0	P
Å	S		F	G	H	J	K	ľ	
2	X	C	Ţ	₿	N	Ĭ		Ent	ter

5) Make a permanent password

For enabling the setting of [Make a permanent password], touch the check box for [Make a permanent password], and then the setting is switched.

- : Disabled
- √ : Enabled

6) Use ext. auth. ID

For using the external authentication ID, touch the check box "Use ext. auth. ID" and switch the setting.

: Use ext. auth. ID

7) Ext.auth. ID

Touch Ext.auth ID to display the external authentication ID input dialog, and enter the external recognition ID. When the input is completed, touch the [Enter] key.

When the authentication method is set to [External auth (general)], the external authentication ID can be input with an external authentication device.

Step 3. Touch the [OK] button after all items are input, and then the dialog shown below is displayed and the input operator information is added.

The operator informat process is completed.	
0 K	1
U K	

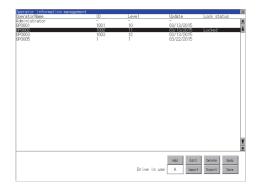
Step 4. Touch the [Cancel] button or the [x] button, and then the dialog box shown below is displayed.

If you close the s pressing "OK" butt data will be disca Do you want to pro	con, the changed arded.
0 K	Cancel

(6) Edit operation

Edit the operator information stored in the GOT.

Step 1. Select the operator information to be edited with touching the operator information.



- Step 2. Touch the [Edit] button.
- Step 3. The Operator information edit screen is displayed, and then touch an item to be edited. For information on how to edit the items [Level], [Password], [Make a permanent password], [Use ext. auth. ID] and [Ext.auth. ID], refer to the following.
 - ➡ (5) Add operation

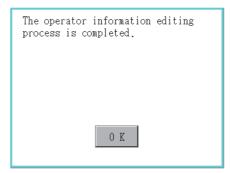
Operator information e	dit	×
OperatorName	0P0002	
Operator ID 10)2	
Level 11]	
Password *****	******	
🔽 Make a permanent	password	
🔽 Use ext. auth.	D	
Ext.auth. ID	01234567	
0		
1) <u>Unlocked</u>		OK Cancel

1) Unlock

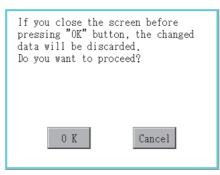
To unlock an operator ID, touch the [Unlocked] button.

Operator information edit	×
OperatorName OPO002	
Operator ID 1002	
Level 11	
Password ********************************	
✓ Make a permanent password	
☑ Use ext. auth. ID Lock cancelation completed.	
Ext.auth. ID 01	
0.K	
0 K	
Unlocked	0K Cance 1

Step 4. Touch the [OK] button after all items are input, and then the dialog shown below is displayed and the input operator information is changed.



Step 5. Touch the [Cancel] button or the [x] button, and then the dialog box shown below is displayed.



(7) Deletion operation

Delete the operator information stored in the GOT.

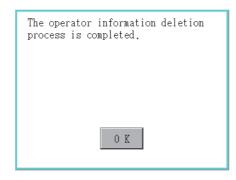
Step 1. Select the operator information to be deleted with touching the operator information.

Operator information mana	genent			×
OperatorName Administrator	ID	Leve 1	Update	Lock status
Administrator	-	-		*
0P0001 0P0002	1001	10	03/13/2015	
0P0002	1002	11	03/13/2015 03/13/2015	Locked 🔺
0P0003 0P0005	1003	12	03/13/2015	
0P0005	1	1	03/22/2015	
				× 1
				¥
			Rdd Edit	Delete Undo
		Drive i	n use 🛛 A 🛛 Impor	t Export Save

Step 2.Touch the [Delete] button to display the dialog shown below.To delete the selected operator information, touch the [OK] button.To cancel the deletion, touch the [Cancel] button.

Target oper 0P0005	operator:						
	to delet	e the operator?					
0 K		Cancel					

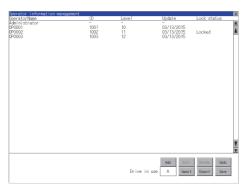
Step 3. When the deletion is completed, the completion dialog is displayed. Touching the [OK] button closes the dialog box.



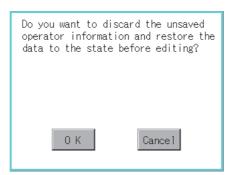
(8) Undo operation

Restore the current operator information to the previous saved one.

Step 1. Touch the [Undo] button.



Step 2. The dialog shown below is displayed, and then touch the [OK] button.



Step 3. The Admin password authentication screen is displayed, and then input the administrator password. Character types to be input can be changed with touching the following buttons.

[A-Z]: Alphabet capital

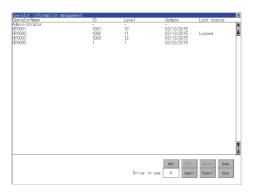
[a-z]: Alphabet small letter

[0-9]: Numeric

When the input is completed, touch the [Enter] key.

Admi	n pa	asswo	ord	auth	enti	cati	on		X
Pass	word	1							
1.71		0 0		(1	[.		14	TATE
<u>A-Z</u>	a-z	<u>0-y</u>						AU	JEL
Q	Ĭ	E	R	T	Ĭ	U	Ι	0	P
Å	S		F	G	H	J	K	L	
2	X	C	Ţ	B	N	I		Ent	:er

Step 4. When the administrator password is correctly input, the current operator information is restored to the previous saved one.



(9) Import operation

Import the operator information that is already exported to an SD card to the GOT.

Step 1. Touch the [Import] button.



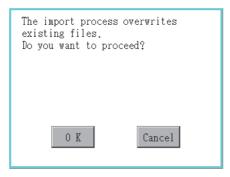
Step 2. The dialog shown below is displayed.

Touch [OK] button, and then the Admin password authentication screen is displayed. Input the administrator password.

Character types to be input can be changed with touching the following buttons.

- [A-Z]: Alphabet capital
- [a-z]: Alphabet small letter
- [0-9]: Numeric

When the input is completed, touch the [Enter] key.



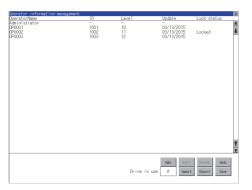
Step 3. When the administrator password is correctly input, the dialog shown below is displayed and the operator information stored in an SD card is imported to the GOT.



(10) Export operation

Export the operator information stored in the GOT to an SD card.

Step 1. Touch the [Export] button.



- Step 2. The dialog shown below is displayed.
 - Touch the following buttons according to the output format for the file.
 - Binary file: [Binary] button
 - · CSV file: [CSV] button

Select an output file format to export the operator information.
Binary CSV Cancel

Step 3. The dialog shown below is displayed.

Touch [OK] button, and then the Admin password authentication screen is displayed. Input the administrator password.

Character types to be input can be changed with touching the following buttons.

- [A-Z]: Alphabet capital
- [a-z]: Alphabet small letter
- [0-9]: Numeric

When the input is completed, touch the [Enter] key.

The export process existing files. Do you want to pro (This saves unsave	oceed?
0 K	Cancel

Step 4. When the administrator password is correctly input, the dialog shown below is displayed and the operator information stored in the GOT is exported to an SD card. (file name: AUTHINF.G1U)

The export process of operator information file is completed.	
0 K	

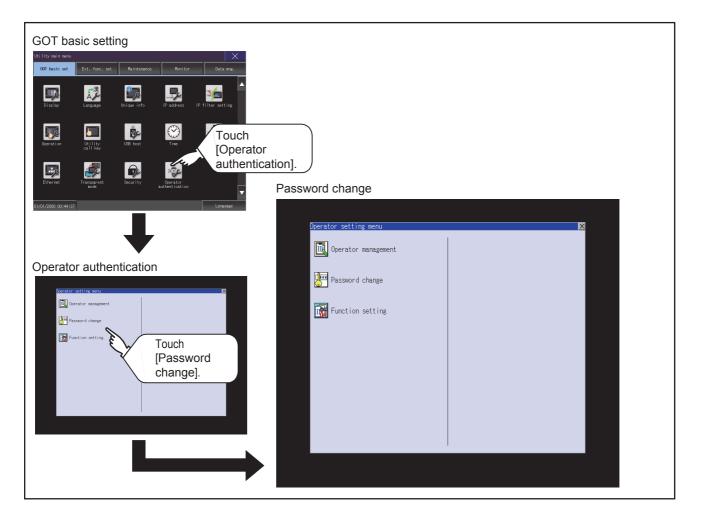
■1. Password change

(1) Password change function

The passwords to be used for the operator authentication can be changed.

For the password change, log into the GOT in advance with the operator name corresponding to the password to be changed.

(2) Display operation of password change



GOT BASIC SETTING

(3) Password change operation

Step 1. Log into the GOT with the operator name corresponding to the password to be changed on the Main Menu screen for the utility.



Step 2. Touch [Password change] in the operator setting menu, and then the Password change dialog is displayed.

Step 3. Input the current password on the Password change dialog.

Character types to be input can be changed with touching the following buttons.

- [A-Z]: Alphabet capital
- [a-z]: Alphabet small letter [0-9]: Numeric

When the input is completed, touch the [Enter] key.

Pass	word	l cha	ange					×	
Input a present password.									
Old	pass	sword	1						
A -Z	a-z	0-9						AC DEL	
Q	Ĭ	E	R	T	Y	J	Ι	0 P	
Å	S		F	G	H	J	K	L	
2	X	C	Ţ	₿	N	Ĭ		Enter	

Password change 🔀									
Input a new password.									
N.		,						,	
New pas:	swor	d 		****	****	****	****		
A-Z a-z	0-9						AC	DEL	
QT	E	R	Τ	Y	U	Ι	0	P	
A S		F	G	H	J	K	L		
ZX	C	Ţ	B	N	Ĭ		Ent	:er	

- *Step 5.* After inputting a new password, input the new password again.
- *Step 6.* When the new password is correctly input, the dialog shown below is displayed and the password is changed.

The password change is completed.
0 K

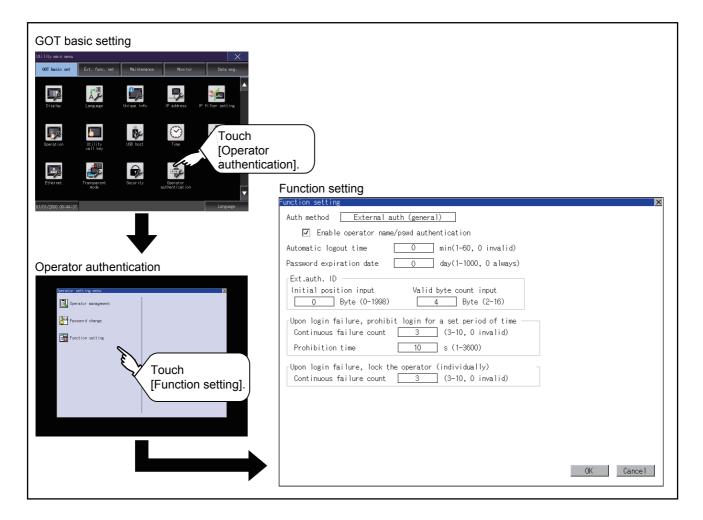
■1. Function setting

(1) Function setting

The functions for the operator information can be set. The following items can be set.

Item	Description	Reference
Auth method	The authentication method can be switched. ([Operator name + password], [External auth (general)]) When [External auth (general)] is selected, the [Enable operator name/pswd authentication] check box appears.	(b)1) Authentication method
Automatic logout time	The time from when the last time the GOT is operated until when you automatically log out of the GOT can be set. (1 to 60 minutes, 0 is invalid.)	(a)2) Automatic logout time
Password expiration date	Set the item for regularly changing the password to be used for the operator authentication. (1 to 1000 days, 0 is invalid.) When the password is out of date after setting the password, the GOT requests the password change.	(c)3) Password expiration date
Initial position input	Set the initial position input (byte count) of external authentication ID from among the data read from the external authentication device. (0 to 1998 bytes)	(d)4) Initial position input
Valid byte count input	Set the valid byte count for external authentication ID. (2 to 16 bytes)	(e)5) Valid byte count input
Upon login failure, prohibit login for a set period of time	Set the continuous failure count to block login. (3 to 10 times, 0: invalid) Set the prohibition time. (1 to 3600 seconds)	(f)6) Continuous failure count to block login (g)7) Login prohibition time
Upon login failure, lock the operator (individually)	Set the continuous failure count to lock an operator ID. (3 to 10 times, 0: invalid)	(h)8) Continuous failure count to lock an operator ID

(2) Display operation of function setting



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(3) Function setting operation

Step 1. Touch [Function setting] in the operator setting menu, and then the Admin password authentication dialog is displayed.



Step 2. Input the administrator password.

Character types to be input can be changed with touching the following buttons.

[A-Z]: Alphabet capital [a-z]: Alphabet small letter

[0-9]: Numeric

When the input is completed, touch the [Enter] key.

Admi	in pa	assvo	ord	auth	enti	cati	on		×
Pass	swore	ł							ן נ
A-Z	a-z	0-9						AC	DEL
Q	Ī	E	R	T	Y	J	Ι	0	P
Å	S		F	G	H	J	K	L	
2	X	C	Ţ	₿	N	Ĭ		Ent	:er

Step 3. When the administrator password is correctly input, the Function setting screen in displayed. Touch an item to be set.

Function setting	
Auth method External auth (general)	
☑ Enable operator name/pswd authentication	
 Automatic logout time min(1-60, 0 invalid)	
 Password expiration date day(1-1000, 0 always)	
Ext.auth. ID Initial position input Valid byte count input 0 Byte (0-1998) 4 Byte (2-16)	
Upon login failure, prohibit login for a set period of time Continuous failure count <u>3</u> (3-10, 0 invalid) Prohibition time <u>10</u> s (1-3800)	
 Upon login failure, lock the operator (individually) Continuous failure count <u>3</u> (3-10, 0 invalid)	
OK Cancel	

1) Authentication method

Switch the authentication method.

Touch the current selection to switch the authentication method between [Operator name + password] and [External auth (general)]. When [External auth (general)] is selected, the [Enable operator name/pswd authentication] check box appears.

Select the checkbox to also perform authentication through an operator name and password at login.

Automatic logout time edit 🛛 🗡 Input automatic logout time.									
Auto	omat:	ic lo	ogou	t ti	me				10
								AC	DEL
1	2	3	4	5	6	7	8	9	0
								En	ter

2) Automatic logout time

Touch [Automatic logout time], and then the Automatic logout time edit dialog is displayed. Input the time. When the input is completed, touch the [Enter] key.

3) Password expiration date

Touch [Password expiration date], and then the Password expiration date edit dialog is displayed. Input the expiration date.

When the input is completed, touch the [Enter] key.

Password expiration date edit X Input password expiration date.									
Pass	Password expiration date 30								
1	2	3	4	5	6	▲ 7	► 8	<u>AC</u> 9	<u>DEL</u> O
			_						
								Ent	ter

4) Initial position input

Set the initial position input (byte count) of external authentication ID from among the data read from the external authentication device.

5) Valid byte count input

Set the valid byte count for external authentication ID. (Only available when the external authentication (general) is set as the authentication method.)

6) Continuous failure count to block login

Set the maximum number of failed login attempts.

7) Login prohibition time

Set a period of time to block login.

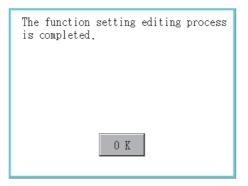
If the maximum number of failed login attempts is exceeded, login is blocked for the set period of time. Log in again after the login prohibition time elapses.

8) Continuous failure count to lock an operator ID

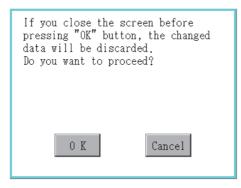
If the maximum number of failed login attempts is exceeded, a target operator ID is locked. For information on how to unlock an operator ID, refer to the following.

(6) Edit operation

Step 4. Touch the [OK] button after all items are input, and then the dialog shown below is displayed and the input setting is saved.



Step 5. If you touch the [x] button without touching the [OK] button, the dialog shown below is displayed



3. EXTENDED FUNCTION SETTING

You can display the setting screens for the extended functions from the GOT utility. The following table lists the extended functions and their setting contents in the corresponding screens.

Item	Description	Reference
SoftGOT-GOT link function	Setting the authorization of the SoftGOT-GOT link function, obtaining or releasing the exclusive authorization	3.1
VNC server function	Setting the authorization guarantee time for the VNC server function	3.2
Sequence program monitor	Specifying the destination location to store sequence programs	3.3
Backup/restoration	Specifying the destination location to store backup data	3.4
License management	Registering or deleting a license	3.6
Video/RGB	Configuring the video unit settings, video display settings, and RGB display settings	3.7
Multimedia	Configuring the video unit settings, video setting, and long time recording settings	3.8
Wireless LAN	Setting the wireless LAN communication unit, listing the connected stations, and setting the destination access point	3.9
System launcher	Configuring a setting to enable the online module change from the system launcher	3.10
iQSS utility	Setting a drive of the data storage in which profile data of iQSS-compatible devices is stored	3.11
ANDON connection	Setting the IP address of a client targeted for the ANDON connection	3.12

5

3.1 SoftGOT-GOT Link Function

3.1.1 SoftGOT-GOT link function setting

The authorization of the SoftGOT-GOT link function can be set, and the exclusive authorization can be obtained or released. Only the GOT can obtain the exclusive authorization.

While the GOT has the exclusive authorization, GT SoftGOT2000 cannot obtain the authorization. For the details of the SoftGOT-GOT link function, refer to the following.

GT SoftGOT2000 Version1 Operating Manual

Function	Description	Setting range
Exclusive authorization obtained state	The status whether or not the GOT obtains the exclusive authorization is displayed. Obtaining or releasing the exclusive authorization can be executed by the GOT.	Obtain/Release <at got="" release="" startup:=""></at>
Authorization obtained time	The time length from the last operation of GT SoftGOT2000 after obtaining the authorization until the GOT automatically obtains the authorization can be set.	0 to 3600 seconds <at 60<br="" factory="" shipment:="">seconds></at>
Operating priority guaranteed time	The time period that the authorized equipment (GOT or GT SoftGOT2000) keeps the authorization after the last operation of the authorized equipment can be set. (The unauthorized equipment cannot obtain the authorization until the set time elapses.)	0 to 3600 seconds <at 0<br="" factory="" shipment:="">seconds></at>
Operation status popup notification	When the authorization is not obtained in GT SoftGOT2000/GOT, whether to display or not the information of the authorized side in pop-up can be set.	YES/NO <at got="" no="" startup:=""></at>

POINT

Relationship with the GOT network interaction function setting

The SoftGOT-GOT link function setting is independent of the GOT network interaction function setting.

Both of the settings are enabled.

3.1.2 Display operation of the SoftGOT-GOT link function setting

	SoftGOT-GOT link function
07/04/2016 15:11:25	Operating priority obtained state Not obtained Obtain Release SoftGOT-GOT link function setting Operating authority obtained time 60 SEC. (0:Invalid) Operating priority guaranteed time 0 SEC. Operation status popup notification NO
	0K Cancel

■1. Exclusive authorization obtained state

(1) Obtaining the exclusive authorization

Step 1. Touch the [Obtain] button to display the dialog.

GOT setup:Operation:SoftGOT-GOT link function setting	×
- Operating priority obtained state	
Not obtained Obtain Release	
- SoftGOT-GOT link function setting	
Operating authority obtained time	
60 SEC. (0:Invalid)	
Operating priority guaranteed time	
0 SEC. Operation status popup notification	
NO	
OK	Cance 1
1	

Step 2. Touch the [OK] button to obtain the exclusive authorization. Touch the [Cancel] button to stop obtaining the exclusive authorization.

(2) Releasing the exclusive authorization

Step 1. Touch the [Release] button to display the dialog.

GOT setup:Operation:SoftGOT-GOT link function setting		×
Operating priority obtained state		
Obtaining Obtain	Re lease	
	- 13	
SoftGOT-GOT link function setting	(}	
Operating authority obtained time	V 1	
60 SEC. (0:Invalid) Operating priority guaranteed time		
0 SEC.		
Operation status popup notification		
NO		
	OK	Cance 1
		0411001

Step 2.Touch the [OK] button to release the exclusive authorization.Touch the [Cancel] button to stop releasing the exclusive authorization.

2. Authorization obtained time

Step 1. If touch the select button of the authorization obtained time, a keyboard is displayed.
 Enter the authorization obtained time with the keyboard.
 When setting to 0 second, the authorization is not automatically obtained by the GOT.

GOT setup:Operation:SoftGOT-GOT link function setting	b
Operating priority obtained state	
Not obtained Obtain	Release
SoftGOT-GOT link function setting	
Operating authority obtained time	
60 SEC. (0:Invalid)	
Operating priority guaranteec ime	
Operation status popup notifica	
/.	
	0K Cancel

Step 2. If touch the [OK] button, the GOT restarts and operates with the changed settings. If touch the [Cancel] button, the changed settings are canceled and the screen returns to the [Ext. func. set] screen.

■3. Operating priority guaranteed time

Step 1. If touch the select button of the operating priority guaranteed time, a keyboard is displayed. Enter the operating priority guaranteed time with the keyboard.

GOT setup:Operation:SoftGOT-GOT link function setting	×
- Operating priority obtained state	_
Not obtained Obtain Release	
- SoftGOT-GOT link function setting	
Operating authority obtained time	
60 SEC. (0:Invalid)	
Operating priority guaranteed time	
0 SEC.	
Operation status popup notification	
$\mathbf{V}_{\mathbf{i}}$	
1.	
0K Cance I	11
ON Carde I	
	_

Step 2. If touch the [OK] button, the GOT restarts and operates with the changed settings. If touch the [Cancel] button, the changed settings are canceled and the screen returns to the [Ext. func. set] screen.

POINT

Relation between the authorization obtained time and the operating priority guaranteed time

When the followings are set, the authorization obtained time is prioritized. (After the authorization obtained time is elapsed, the GOT automatically obtains the authorization.)

- 1sec or more is set for the authorization obtained time.
- The authorization guarantee time is set longer than the authorization obtained time.

EXTENDED FUNCTION SETTING

3

■4. Operation status popup notification

Step 1. When you touch the setting item, the setting contents change. (YES \bigcirc NO)

GOT setup:Operation:SoftGOT-GOT link function setting		ž
Operating priority obtained state		
Not obtained Obtain	Release	
SoftGOT-GOT link function setting		
Operating authority obtained time		
60 SEC. (0:Invalid)		
Operating priority guaranteed time		
0 SEC. Operation status popup notification		
۱ <u>۲</u> ۲		
1.		
	OK	Cance 1
	-514	our ide t

Step 2. If touch the [OK] button, the GOT restarts and operates with the changed settings. If touch the [Cancel] button, the changed settings are canceled and the screen returns to the [Ext. func. set] screen.

3.2 VNC Server Function

3.2.1 VNC server function setting

In the VNC server function setting, the authorization guarantee time for the VNC server function can be set. For the details of the VNC server function, refer to the following.

GT Designer3 (GOT2000) Screen Design Manual

Function	Description	Setting range
Operating priority guaranteed time	The time that the authorized equipment holds the authorization after you operate the authorized equipment can be set. (The unauthorized equipment cannot obtain the authorization until the set time elapses.)	0 to 3600 seconds <at 0<br="" factory="" shipment:="">seconds></at>

POINT

- (1) Authorization guarantee time cancel signal (GS1792.b8) When the Authorization guarantee time cancel signal (GS1792.b8) turns on, the authorization guarantee time setting is disabled.
- (2) Relationship with the GOT network interaction function setting The SoftGOT-GOT link function setting is independent of the GOT network interaction function setting.

Both of the settings are enabled.

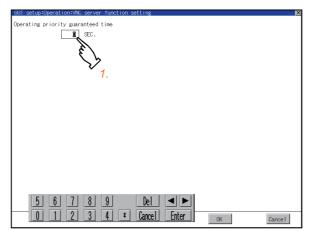
3.2.2 Display operation of the VNC server function setting

	VNC server function	×
07/04/2016 1511:26	Operating priority guaranteed time	
		OK Cancel

3.2.3 VNC server function setting operation

■1. Operating priority guaranteed time

Step 1. Touch the input field for [Operating priority guaranteed time] to display a keyboard. Input the authorization guarantee time with the keyboard.



Step 2. If touch the [OK] button, the GOT restarts and operates with the changed settings. If touch the [Cancel] button, the changed settings are canceled and the screen returns to the [Special function setting] screen.

3.3 Sequence Program Monitor

3.3.1 Sequence program monitor setting

Storage locations and others for data to be used for the sequence program monitor function can be set. Storing a sequence program eliminates the need for reading the program from the PLC CPU at the next GOT startup. This shortens the time required for the execution of the sequence program monitor. For the details of the sequence program monitor, refer to the following.

GOT2000 Series User's Manual (Monitor)

Function	Description	Setting range		
Data save location	Select the storage location for the sequence program monitor.	A: Built-in SD card B: USB Drive E: USB Drive F: USB Drive G: USB Drive <default: a:="" built-in="" card="" sd=""></default:>		
Automatic program read	Select whether to automatically read sequence programs when the sequence program monitor starts from a touch switch or alarm display.	YES/NO <default: yes=""></default:>		
Priority comment	If both Common comment and Each program comment are set for the same device in a sequence program, select either of the comments to be displayed in the sequence program monitor.	Common comment/Each program comment <default: comment="" common=""></default:>		

■1. Sequence program to be saved

The sequence program to be saved is used by the GOT to execute the sequence program monitor. The sequence program can be saved in the SD card with this function, however it cannot be copied in the personal computer to be referred/edited with GX Developer, etc.

3.3.2 Display operation of the sequence program monitor

Special function setting	
Off basic set Ext. func. set Nuitor Data mg. SetUP-OF View function We server function Setup Image: Setup Image: Setup View function We server function Setup Image: Setup Image: Setup Image: Setup View function We server function Setup Image: Setup </td <td></td>	
Vidoration Nultimedia Wind text 1 (Seq. program mo	nitor].
ACOI connection	Sequence program monitor setting Seq. program monitor Data save location A:Built-in SD card Automatic program read Y
	Priority comment Common com Select the storage location for the sequence program monitor.
	OK Cancel

3.3.3 Sequence program monitor setting operation

Step 1. When you touch the setting item, the setting contents change.

Seq. program monitor			
Data save location	A:Built-in SD card		
Automatic program read	YES		
Priority comment	Common comment		
		OK	Cancel

Step 2. If touch the [OK] button, the GOT restarts and operates with the changed settings. If touch the [Cancel] button, the changed settings are canceled and the screen returns to the [Ext. func. set] screen.

3.4.1 Backup/restoration setting

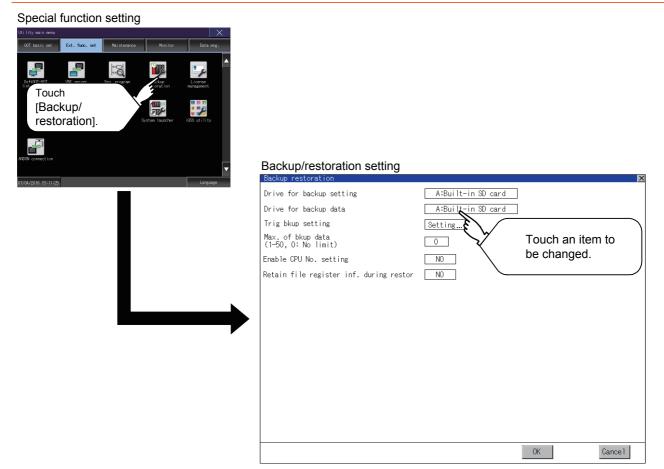
The storage location for backup data can be set. For how to use the backup/restoration, refer to the following.

GOT2000 Series User's Manual (Monitor)

Set the following items with touching the items on the GOT.

Item	Description	Setting range	
Drive for backup setting	The drive for storing backup settings, including parameters and passwords for controllers, can be selected.	A: Built-in SD card B: USB Drive E: USB Drive F: USB Drive G: USB Drive X: Drive <default: drive="" x:=""></default:>	
Drive for backup data	The drive for storing backup data can be selected.	A: Built-in SD card B: USB Drive E: USB Drive F: USB Drive G: USB Drive X: Drive <default: drive="" x:=""></default:>	
Trigger backup setting	The GOT automatically backs up data when triggers (Rise, Time) specified for each backup setting are met.	None/Rise/Time <default: none=""> 3.5 Trigger Backup</default:>	
Max. of backup data	Set the maximum number of backup data to be stored. (When 0 is specified, the GOT does not check the number of backup data to be stored.)	Setting range: 0 to 50 <default: 0=""></default:>	
Enable CPU No. setting Enable CPU No. setting Enable CPU No. setting Enable CPU No. setting Secified PLC. Therefore the network batch backup/restoration on the multiple PLCs cannot be executed.)		YES/NO <default: no=""></default:>	
Retain file register inf. during restor	Set whether to retain the file register information at a restoration.	YES/NO <default: no=""></default:>	

3.4.2 Display operation of backup/restoration setting



3.4.3 Backup/restoration setting operation

■1. Drive for backup setting, drive for backup data

Step 1. If touch the setup item, the setup contents are changed.

Dackup rescoración	A
Drive for backup setting	A:Built-in SD card
Drive for backup data	A:Built-in SD card
Trig bkup setting	Setting
Max. of bkup data (1-50, 0: No limit)	
Enable CPU No. setting	NO /.
Retain file register inf. during restor	NO
	OK Cancel
L	
	\ >
	¥ 2
	۷.

Step 2. If touch the [OK] button, the changed settings are reflected and the screen returns to the [Special function setting] screen.

If touch the [Cancel] button, the changed settings are canceled and the screen returns to the [Special function setting] screen.

2. Trigger backup setting

For operations of the trigger backup setting, refer to the following.

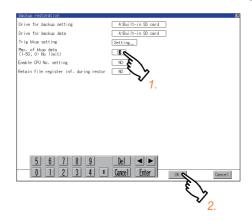
➡ 3.4.3 Backup/restoration setting operation

EXTENDED FUNCTION SETTING

■3. Max. of backup data

Step 1. If touching the setting items, keyboard is displayed. Input numeric with the keyboard.

Setting range: 0 to 50, Default: 0 (When 0 is specified, the GOT does not check the number of backup data to be stored.)

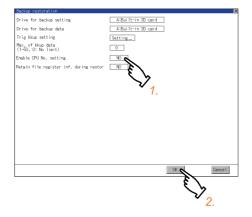


Step 2. If touch the [OK] button, the changed settings are reflected and the screen returns to the [Special function setting] screen.

If touch the [Cancel] button, the changed settings are canceled and the screen returns to the [Special function setting] screen.

■4. Enable CPU No. setting

Step 1. If touch the setup item, the setup contents are changed.



Step 2. If touch the [OK] button, the changed settings are reflected and the screen returns to the [Special function setting] screen.

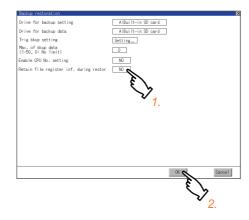
If touch the [Cancel] button, the changed settings are canceled and the screen returns to the [Special function setting] screen.

EXTENDED FUNCTION SETTING

3

■5. Retain file register inf. during restor

Step 1. If touch the setup item, the setup contents are changed.



Step 2. If touch the [OK] button, the changed settings are reflected and the screen returns to the [Special function setting] screen.

If touch the [Cancel] button, the changed settings are canceled and the screen returns to the [Special function setting] screen.

3.5 Trigger Backup

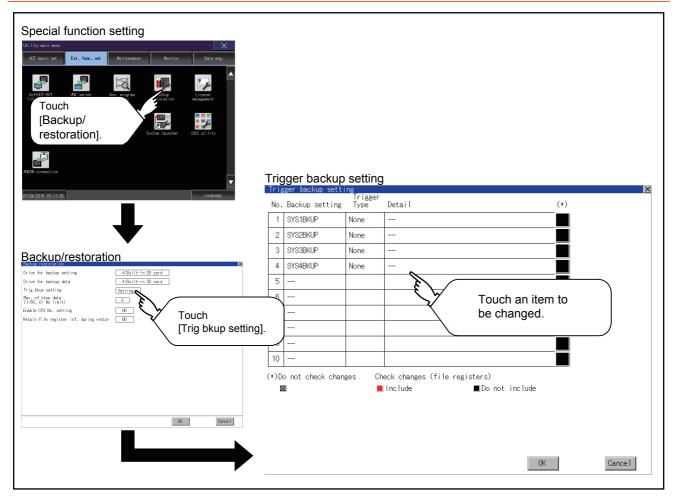
3.5.1 Trigger backup setting

When the conditions of the trigger specified for each backup setting (Rise, Time) are met, the GOT automatically backs up data.

For how to use the trigger backup, refer to the following.

GOT2000 Series User's Manual (Monitor)

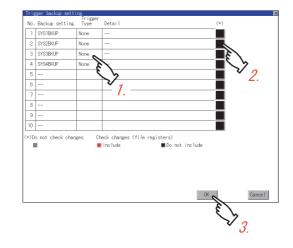
3.5.2 Display operation of the trigger backup setting



3.5.3 Trigger backup setting operation

Step 1. Touch a setting item for the trigger type, and then the setting is changed.

None: The GOT does not execute the trigger backup. Rise: The GOT backs up data when the trigger device turns on. Time: The GOT backs up data at the specified time.



Step 2. Touch a setting item for check changes, and then the setting is changed.

 \odot

: Backup is executed regardless of whether the backup data has been changed.

When the backup is executed, the GOT checks if the backup data and the data stored in the file register havebeen changed after the previous backup. When the data has been changed, the GOT backs up the changed data.

When the backup is executed, the GOT checks if the backup data has been changed after the previous backup.

- : When the data has been changed, the GOT backs up the changed data. However, the GOT does not check if the data stored in the file register has been changed.
- *Step 3.* When the trigger type is changed, a password input window appears by touching the [OK] button. Input the password for the backup/restore.

When the password is verified, the settings are reflected, and then the screen returns to the [trigger backup setting] screen.

When the trigger type is not changed, touching the [OK] button reflects the settings.

If touch the [Cancel] button, the changed settings are canceled and the screen returns to the [Backup/ restoration] screen.

POINT

Precautions for setting

When the trigger type is set to [Rise], set the trigger device with GT Designer3 in advance. Failure to do so disables the backup setting with [Rise] set.

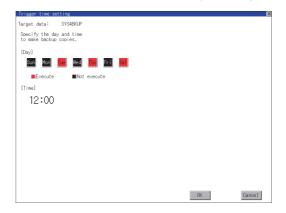
3.5.4 Trigger time setting operation

Step 1. When the trigger type is set to [Time], touch a setting item for [Detail] and the screen is switched to the trigger time setting screen.

	ger backup setti	Trigger	
k.	Backup setting	Type	Detail (*)
1	SYS1BKUP	None	
2	SYS2BKUP	None	
3	SYS3BKUP	None	-
4	SYS4BKUP	None	- 8
5			
6			
7			
8			
9			
10			
)D.	not check chan	ges Ch	eck changes (file registers)
8			Include Do not include
			0K Cance

Step 2. In the screen, specify the days and time that the GOT executes the backup. Day: Select days that the GOT executes the backup by touching displayed items.Multiple days can be selected.

Time: Set the time that the GOT executes the backup by touching the displayed item.



3.6 License Management

3.6.1 License management setting

To use functions which require a license, register the license to the GOT. To delete the license registered to the GOT, perform the operation also on the license management screen.

Item	Description	Setting range
Remote personal computer operation function (Ethernet)	Register or delete the license for the remote personal computer operation function (Ethernet).	-
VNC server function	Register or delete the license for the VNC server function.	-
MES interface function	Register or delete the license for the MES interface function.	-
GOT Mobile function	Register or delete the license for the GOT Mobile function.	-

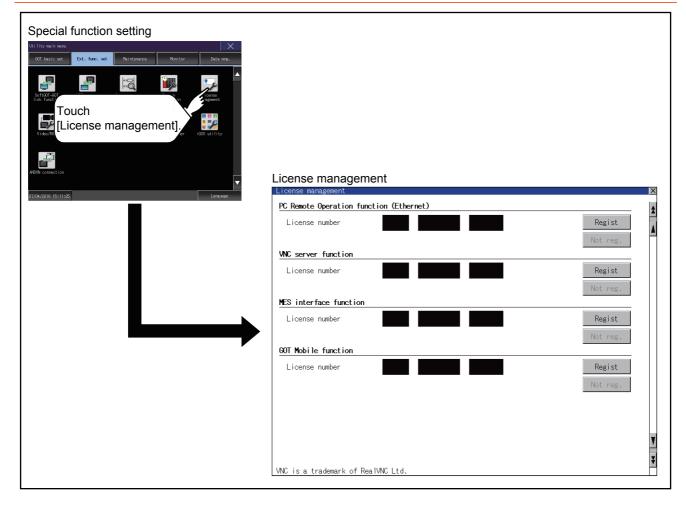
You can register or delete licenses for the remote personal computer operation function (Ethernet), the VNC server function, the MES interface function, and the GOT Mobile function independently.

For the details of each function, refer to the following.

GT Designer3 (GOT2000) Screen Design Manual

GOT2000 Series MES Interface Function Manual for GT Works3 Version1

3.6.2 Display operation of the license management setting

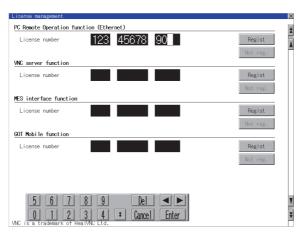


3 - 17

3.6.3 Setting operation of license management

■1. When registering a license number for the GOT

Step 1. Touch the license number input area on the license management screen, and then the keyboard appears on the bottom of the screen.



- Step 2. Touch the [Regist] button to register the input license number. If the 🔀 button is touched without touching the [Regist] button, the license number is not registered.
- Step 3. After a license number is registered, touch the 🔀 button to close the license management screen.

■2. When releasing a license number for the GOT

Step 1. Touch the [Cancel reg.] button to release the registered license number.

icense management °C Remote Operation fu	notion (Ether	met)			
License number		45678	9012	Registered	
NC server function				Cancel reg.	
License number				Regist	
				Not reg.	
ES interface function					
License number				Regist	
				Not reg.	
OT Mobile function					
License number				Regist	
				Not reg.	
C is a trademark of F					
U IS a trademark of F	earvino Ltd.				_

Step 2. Touch the button to close the license management screen.

POINT

How to acquire a license number

For how to acquire a license number, please consult your local Mitsubishi (Electric System) Service center or representative.

3.7 Video/RGB

3.7.1 Video unit setting

■1. Video unit setting

The video input signal and resolution can be selected.

Item	Description	Setting range		
Video unit setting	The input signal and resolution can be selected.	Input signal: NTSC format, PAL format <at factory="" format="" ntsc="" shipment:=""> Resolution: 640 × 480, 720 × 480^{*1}, 768 × 576 <at 480="" 640="" :="" factory="" shipment="" ×=""></at></at>		

*1 Can be selected only in PAL format

POINT

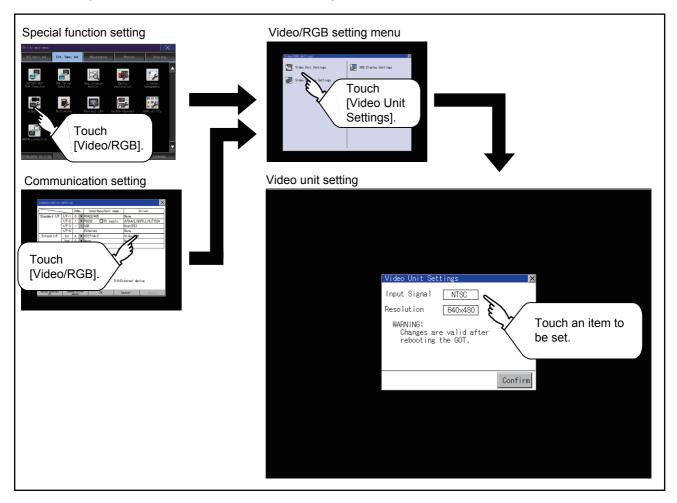
Input signal settings

Set the input signal as follows according to the output format for the video camera or the like connected.

If the settings made differ from these, video images may not be displayed correctly.

Output format for video camera or the like	Input signal setting		
NTSC format	NTSC		
PAL format	PAL		
EIA format	NTSC		
CCIR format	PAL		

■2. Display operation of the video unit setting



EXTENDED FUNCTION SETTING

■3. Operating the video unit setting

Input signal

Resolution

Step 1. When you touch the setting item, the setting contents change.

			Video Unit Settings	×
			Input Signal NTSC Resolution 640×480]
			WARNING: Changes are valid at rebooting the GOT.	-
				Confirm
PAL, N	NTSC			
720	480, 768	576, 640	480	

Step 2. When you touch the [Confirm] button, the setting contents are determined.

Step 3. If you touch the [x] button without touching the [Confirm] button, the dialog shown below is displayed.

Changes are discarded if you close the window before pressing "Confirm." Do you want to proceed?				
0 K	Cance 1			

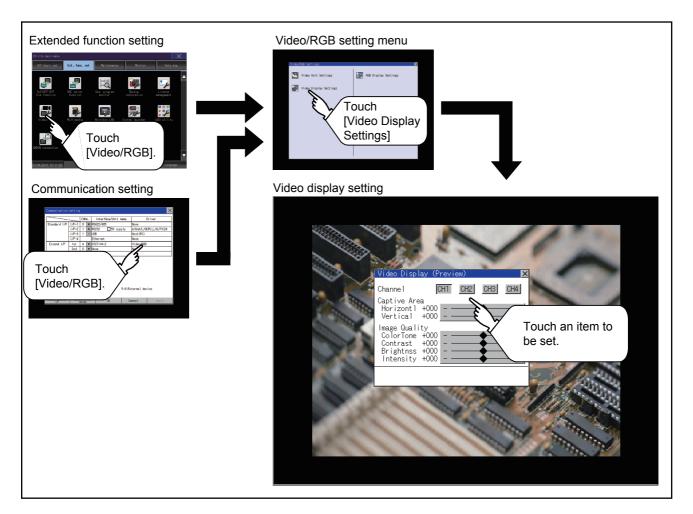
Step 4. After completing the settings for all the items you want to change in [Video Unit Settings], when closing [Video Unit Settings] and [Video/RGB Setting]/[Communication Setting] with the [×] button, the GOT is restarted, and the new setting contents are reflected.

■1. Video display setting

The target for the video settings and the preview channel can be selected and the captive area and image quality can be set.

Item	Description	Setting range
Video Display Setting	The target for the video settings and the preview channel can be selected and the captive area (in the horizontal direction and vertical direction) and image quality (color tone, contrast, brightness, color intensity) can be set. The captive area and image quality can be set for each channel.	Channel 1/2/3/4 <at 1="" :="" factory="" shipment=""> Captive area Horizontal: -100 to 100 <at 0="" :="" factory="" shipment=""> Vertical: -100 to 100 <at 0="" :="" factory="" shipment=""> Image Quality and Color Tone: -100 to 100 <at 0="" :="" factory="" shipment=""> Contrast: -100 to 100 <at 0="" :="" factory="" shipment=""> Brightness: -100 to 100 <at 0="" :="" factory="" shipment=""> Intensity: -100 to 100 <at 0="" :="" factory="" shipment=""></at></at></at></at></at></at></at>

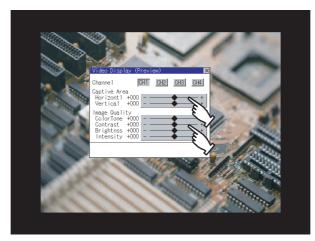
■2. Display operation of the video display setting



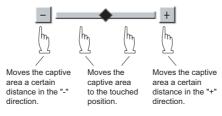
EXTENDED FUNCTION SETTING

■3. Video display setting operation

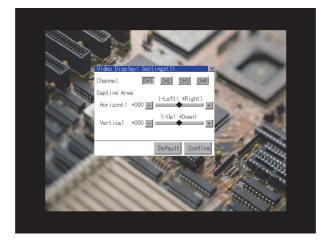
Step 1. Select a video channel No. to be displayed. The video image for the selected channel No. is previewed.



- Step 2. To change the captive area or image quality, touch the display section of each item. Captive Area: Refer to step 3 to step 6.
 Image Quality: Refer to step 7 to step 10.
- Step 3. The captive area (horizontal direction/vertical direction) for the selected channel No. can be changed.

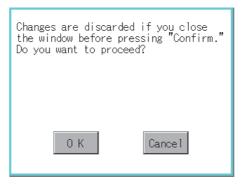


Touching the [Default] button returns to the default status.

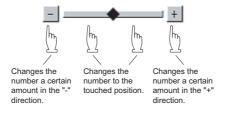


Step 4. When you touch the [Confirm] button, the setting contents are determined.

Step 5. If you touch the [x] button without touching the [Confirm] button, the dialog shown below is displayed.

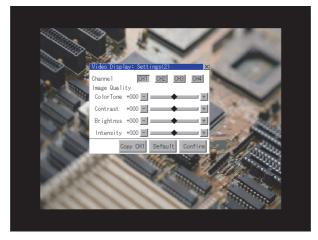


- Step 6. After completing all the items to set, if you touch the [×] button, the display returns to the preview screen step1.
- *Step 7.* The image quality (color tone, contrast, brightness, color intensity) for the selected channel No. can be changed.

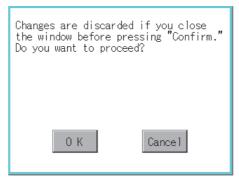


Touching the [Default] button returns to the default status.

When touching the [Copy CH1] button, the image quality (color tone, contrast, brightness, color intensity) for the selected channel No. is matched with the image quality settings for Channel No. 1 ([CH1]).



- Step 8. When touching the [Confirm] button, the setting contents are determined.
- Step 9. If you touch the [x] button without touching the [Confirm] button, the dialog shown below is displayed.



6

- Step 10. After completing all the items to set, if you touch the [×] button, the display returns to the preview screen step1.
- Step 11. After completing the settings for all the items you want to change in the video display settings, when closing [Video Display (Preview)] with the [×] button, the display returns to [Video/RGB Setting].

POINT

Precautions for setting

Incorrect settings may disrupt or stop the video image.

(If this happens, returning the settings to their default values restores normal display.) This phenomenon depends on the video camera or other device connected. Use setting values that provide proper display.

3.7.3 RGB display setting

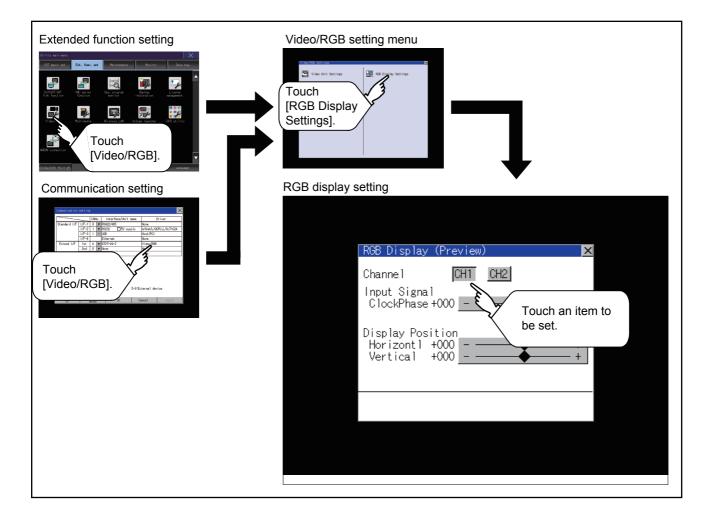
■1. RGB display setting

The RGB clock phase and screen position can be set.

Item	Description	Setting range
RGB Display Setting	The target for the RGB settings and the preview channel can be selected and the RGB clock phase ^{*1} and screen position (horizontal direction and vertical direction) can be set.	Channel: 1/2 <at 1="" :="" factory="" shipment=""> ClockPhase: -100 to 100 <at 0="" :="" factory="" shipment=""> Display position Horizontal: -100 to 100 <at 0="" :="" factory="" shipment=""> Display position Vertical: -100 to 100 <at 0="" :="" factory="" shipment=""></at></at></at></at>

*1 Adjust when a noise is displayed along the horizontal direction or characters are blotted or the contours are unclear.

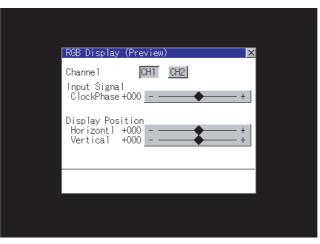
■2. Display operation of the RGB display setting



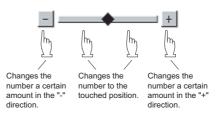
EXTENDED FUNCTION SETTING

■3. RGB display setting operation

Step 1.Select an RGB channel No. to be displayed.The RGB image for the selected channel No. is previewed.



Step 2. The clock phase and screen display position (horizontal direction or vertical direction) can be changed.



- Step 3. When you touch the [Confirm] button, the setting contents are determined.
- Step 4. If you touch the X button without touching the [Confirm] button, the dialog shown below is displayed.

	Changes are discarde the window before pr Do you want to proce	essing "Confirm."
OKI Cancell	0 K	Cancel

Step 5. After completing all the items to set, if you touch the 🔀 button, the display returns to [Video/RGB Setting].

POINT

Precautions for setting

- If the value for [Horizontal] or [Vertical] is too large, RGB display may not be performed or the display may be disrupted or stopped.
- If this happens, return the settings to their default values and make settings in the range where RGB display is possible.

3.8.1 Video unit setting

■1. Video unit setting

The video input signal and resolution can be selected.

Item	Description	Setting range
Video unit setting	The input signal and resolution can be selected.	Input signal: NTSC format, PAL format <at factory="" format="" ntsc="" shipment:=""> Resolution: 640 × 480^{*1}, 768 × 576^{*2} <at 480="" 640="" :="" factory="" shipment="" ×=""></at></at>

When NTSC format is selected, the resolution is fixed to 640 × 480. *1 *2

When PAL format is selected, the resolution is fixed to 768 × 576.

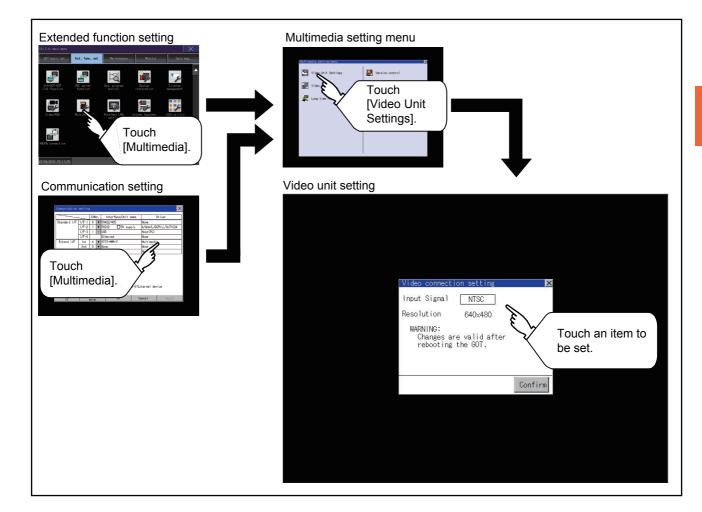
POINT

Input signal settings

Set the input signal as follows according to the output format for the video camera or the like connected.

If the settings made differ from these, video images may not be displayed correctly.

Output format for video camera or the like	Input signal setting
NTSC format	NTSC
PAL format	PAL
EIA format	NTSC
CCIR format	PAL



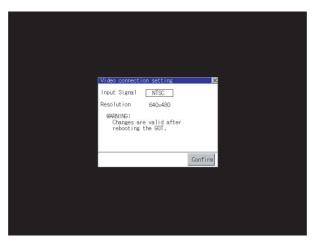
3

■3. Operating the video unit setting

Step 1. When you touch the setting item, the setting contents change.

Input signal	PAL, NTSC
Resolution	768 × 576, 640 × 480

Resolution automatically switches to 640 \times 480 when NTSC is selected and to 768 \times 576 when PAL is selected.



- Step 2. When you touch the [Confirm] button, the setting contents are determined.
- Step 3. If you touch the kitton without touching the [Confirm] button, the dialog shown below is displayed.

Changes are discarded if you close the window before pressing "Confirm." Do you want to proceed?
0 K Cancel

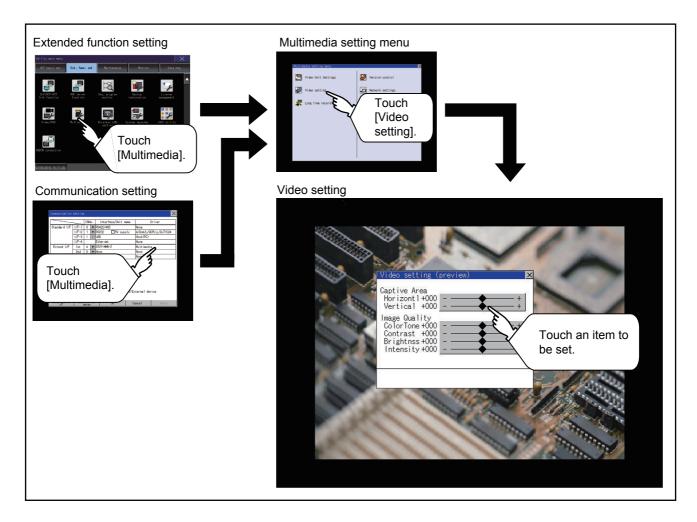
- *Step 4.* After completing the settings for all the items you want to change, close [Video Unit Settings] with the button.
- Step 5. When closing [Multimedia Setting] or [Communication Setting] with the 🔀 button, the new setting contents are reflected.

■1. Video setting

The captive area and image quality can be set.

Item	Description	Setting range
Video setting	The captive area (in the horizontal direction and vertical direction) for the video and the image quality (color tone, contrast, brightness, color intensity) can be set.	Captive area Horizontal: -100 to 100 <at 0="" :="" factory="" shipment=""> Vertical: -100 to 100 <at 0="" :="" factory="" shipment=""> Image Quality and Color Tone: -100 to 100 <at 0="" :="" factory="" shipment=""> Contrast: -100 to 100 <at 0="" :="" factory="" shipment=""> Brightness: -100 to 100 <at 0="" :="" factory="" shipment=""> Intensity: -100 to 100 <at 0="" :="" factory="" shipment=""></at></at></at></at></at></at>

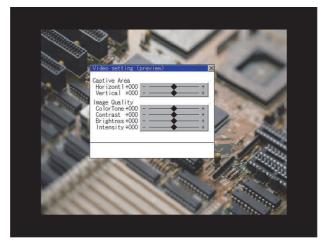
■2. Display operation of the video setting



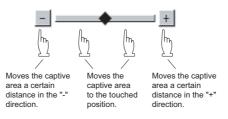
■3. Operation of Video setting

Step 1. To change the captive area or image quality, touch the display section of each item. Captive Area: Refer to step 2 to step 5.

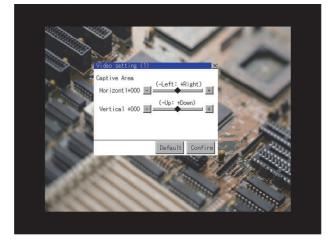
Image Quality: Refer to step 6 to step 9.



Step 2. The captive area (horizontal direction or vertical direction) can be changed.

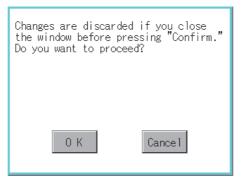


Touching the [Default] button returns to the default status.

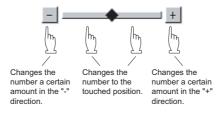


Step 3. When you touch the [Confirm] button, the setting contents are determined.

Step 4. If you touch the button without touching the [Confirm] button, the dialog shown below is displayed.



- Step 5. After completing all the items to set, if you touch the 🖂 button, the display returns to the preview screen step1.
- *Step 6.* The image quality (color tone, contrast, brightness, color intensity) for the selected channel No. can be changed.

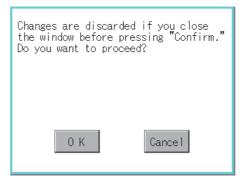


Touching the [Default] button returns to the default status.

When touching the \bowtie button, the setting contents are determined.



Step 7. If you touch the button without touching the [Confirm] button, the dialog shown below is displayed.



- Step 8. After completing all the items to set, if you touch the 🖂 button, the display returns to the preview screen step1.
- Step 9. After completing the settings for all the items you want to change in [Video setting], when closing [Video setting (preview)] with the 🔀 button, the display returns to [Multimedia Setting].

POINT

Precautions for setting

Incorrect settings may disrupt or stop the video image.

(If this happens, returning the settings to their default values restores normal display.) This phenomenon depends on the video camera or other device connected.

Use setting values that provide proper display.

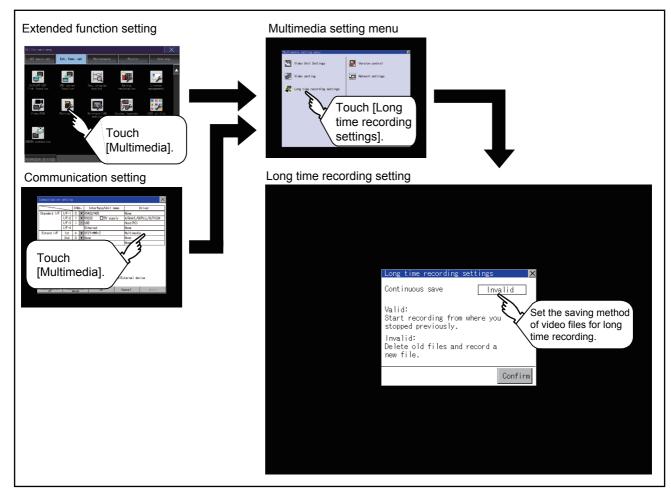
3.8.3 Long time recording setting

■1. Long time recording setting

In the long time recording settings, the saving method of video files for long time recording can be set.

Item	Description	Setting range
Continuous save	At the long time recording, whether to start recording after deleting all the video files which are previously recorded or to start recording without the deletion can be set.	Valid/Invalid <at factory="" invalid="" shipment:=""></at>

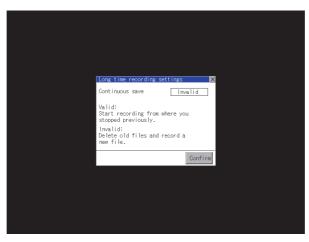
■2. Display operation of the long time recording setting



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■3. Operating the long time recording settings

Step 1. When you touch the setting item, the setting contents change. Continuous recording: Valid/Invalid



- Step 2. When you touch the [Confirm] button, the setting contents are determined.
- Step 3. If you touch the button without touching the [Confirm] button, the dialog shown below is displayed.

Changes are discarde the window before pe Do you want to proce	
0.14	
0 K	Cancel

- Step 4. After completing the settings for all the items you want to change, close [Long time recording settings] with the 🔀 button.
- Step 5. When closing [Multimedia Setting] or [Communication Setting] with the 🖂 button, the new setting contents are reflected.

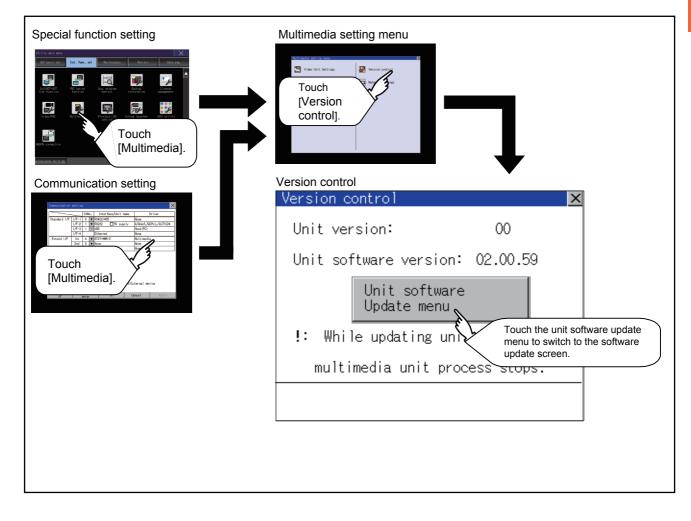
3.8.4 Version control

Perform the version control when updating the software version of the multimedia unit.

■1. Display operation of the version control

To update the software version of the multimedia unit, insert a CF card that contains the update program into the multimedia unit.

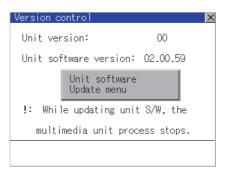
- Obtain the update program by one of the following methods.
- Disk5 folder in GT Works3 DVD-ROM
- Contact your local distributor.



6

2. Setting procedure for the version control

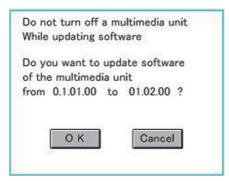
Step 1. Check the current software version of the multimedia unit that is displayed in [Unit software version]. Touch the [Unit software Update menu] button to display the update program transfer screen.



Step 2. Insert a CF card that contains the update program into the multimedia unit. The update program version appears in [Update software ver] only when this version is newer than the one displayed in [Unit software version].

tware update	
Unit software version:	01. 01. 00
	•
Update software ver:	01. 02. 00
	Update

- Step 3. To update to the new version, touch the [Update] button.
- Step 4. The dialog below appears.



To perform the update, touch the [OK] button. To cancel the update, touch the [Cancel] button. Step 5. The dialog below appears during the update.

Do not remove the CF card or power off the GOT while this dialog is being displayed. Do not turn off the SD card access switch of the multimedia unit. Doing so causes an improper update of the software.

Up	dating multimedia unit software
Ca	ution: Do not power off the unit while updating.

Step 6. After the update is complete, the dialog below appears.

Software Update	×
Completed update of the un	nit
software version.	
Unit software version:	01.02.00
-	

Step 7. If the update terminates abnormally or fails, the dialog below appears. In such a case, restart the GOT and then perform the update from step 1 again.

Software update	
Fail to update the unit sftware	
Version correctly.	

■1. Network setting

The network setting is executed when the network connection is made using the Ethernet I/F of the multimedia unit. The following settings can be made in the network setting.

Item	Description	Setting range	
MAC address	Displays the MAC address.	-	
IP address	Displays and sets the IP address.	0.0.0.0 to 255.255.255.255 <default: 192.168.3.51=""></default:>	
Default gateway Displays and sets the router address of the default gateway. For the connection via a router, the setting is required.		0.0.0.0 to 255.255.255.255 <default: 0.0.0.0=""></default:>	
Subnet mask	Displays and sets the subnet mask.0.0.0.0 to 255.255.25For the connection via a router, the setting is required.< Object		

■2. Display operation of the network setting

Extended function setting	Multimedia setting menu
Communication setting	Network settings MAC Address 08:00:70:B2:92:3B IP Address 192.168.3.51 Default Gateway 0.0 Touch an item to be changed. Subnet mask 255.255 Default Confirm

■3. Operating the network setting

The following shows the setting operation of the IP address. The same setting operation is applied to the default gateway and the subnet mask.

Step 1. Touch the IP address display box.

Network setting	s	X
MAC Address	08:00:70:B2:92:3B	
IP Address	192.168.3.51	
Default Gateway	0.0.0.0	
Subnet mask	255.255.0	
	Default Confirm	

Step 2. The keyboard appears. Enter numerical values.

Multimedia sett	ings	: Ne	twork	se	ttings	X
MAC Address	08:(0:70):B2:9	92:3	B	
IP Address	19	1.1	68].[3	. 51	
Default Gateway	0].[0	0	. 0	
Subnet mask	255	.[2	55 2	:55	.0	
		Det	ault	C	onfirm	n
5 6 7 8	9		Del			
0 1 2 3	4	*	Cane	el	Ente	r

- Step 3. When you touch the [Confirm] button, the setting contents are determined. If you touch the [Default] button, the setting contents can be returned to the initial values.
- Step 4. If you touch the button without touching the [Confirm] button, the dialog shown below is displayed.

Changes are discarded if you close the window before pressing "Confirm." Do you want to proceed?		
0 K Cancel		

Step 5. After completing the settings for all the items you want to change in [Network settings], when touching the button, the display returns to [Multimedia setting menu].

3.8.6 Multimedia screen

■1. Display operation of multimedia screen

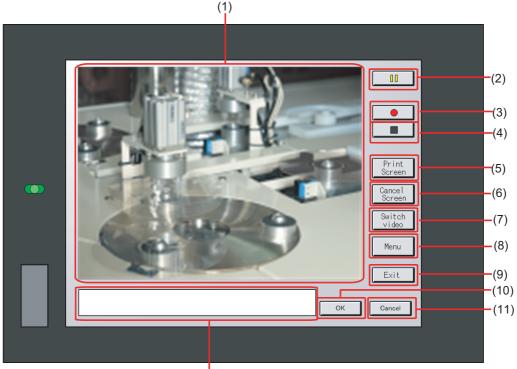
Create the multimedia screen switch used to display the multimedia screen on the project screen. Touch the multimedia screen switch so that the screen is switched to the multimedia screen. The video image, play video and file selection menu can be switched on the multimedia screen. For details of the procedures for creating the special function switch used to display the multimedia screen, refer to the following.

GT Designer3 (GOT2000) Screen Design Manual

■2. Operation of multimedia screen

(1) Video image screen

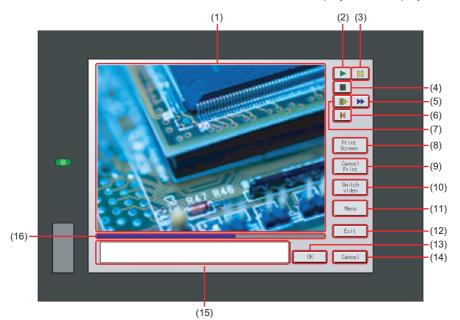
Images taken with a video camera connected to the multimedia unit can be displayed on the GOT screen. Images taken with a video camera can be recorded.



(12)

		(12)
Item	Item	Description
(1)	Image display screen	Screen to display images taken with a video camera
(2)	D button	Button to pause images taken with a video camera
(3)	button	Button to start recording images taken with a video camera
(4)	button	Button to stop recording
(5)	Print Screen button	Button to start printing the screen
(6)	Cance 1 Screen button	Button to cancel printing the screen
(7)	Switch video button	Button to switch the display to the play video screen
(8)	Menu button	Button to switch the screen to the file menu screen
(9)	Exit button	Button to exit the multimedia screen switch and to return to the utility screen
(10)	0K button	Button to accept messages
(11)	Cance 1 button	Button to stop messages
(12)	Message display screen	Screen to display error messages, etc.

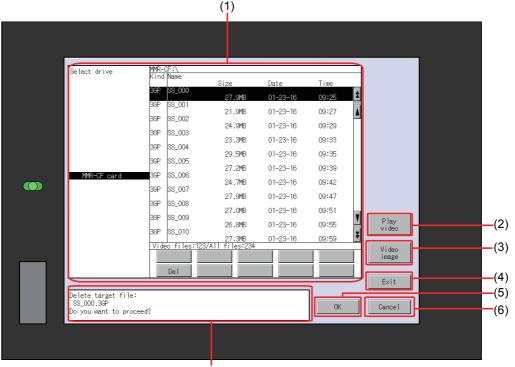
(2) Play video screen Video files saved in the CF card installed on the multimedia unit can be played and displayed.



Item	Item	Description
(1)	Image display screen	Screen to display images taken with a video camera or to play video taken with a video camera
(2)	button	Play button for playing video
(3)	D button	Button to pause images or video taken with a video camera
(4)	button	Button to stop playing
(5)	button	Button to return to the beginning of video files and to play the video
(6)	button	Button to return to the beginning of video files and to play the video
(7)	button	Button to play the video in slow motion
(8)	Print Screen button	Button to start printing the screen
(9)	Cancel Print button	Button to cancel printing the screen
(10)	Switch video button	Button to switch the display to the video image screen
(11)	Menu button	Button to switch the screen to the file menu screen
(12)	Exit button	Button to exit the multimedia screen switch and to return to the utility screen
(13)	OK button	Button to accept messages
(14)	Cance] button	Button to stop messages
(15)	Message display screen	Screen to display the file name and shooting time of the video being played and messages
(16)	Play position display bar	Bar to display the play position of the video

(3) File menu screen

Video files of the CF card installed on the multimedia unit can be searched. Searched video files can be displayed on the play video screen.



(7)

Item	Name	Description
(1)	File menu display screen	Screen to list the video files, display the number of files, and delete a target file in the CF card selected in [Select drive]
(2)	Play video button	Button to switch the display to the play video screen
(3)	Vi deo i mage button	Button to switch the display to the video image screen
(4)	Exit button	Button to exit the multimedia screen switch and to return to the utility screen
(5)	OK button	Button to accept messages
(6)	Cance 1 button	Button to stop messages
(7)	Message display screen	Screen to display error messages, etc.

3.9.1 Wireless LAN function setting

On the GOT, you can enable or disable the wireless LAN function, and check the wireless LAN function setting that is configured with GT Designer3.

For the setting of the wireless LAN function, refer to the following.

Image: GT Designer3 (GOT2000) Screen Design Manual

3.9.2 Display operation of the wireless LAN function setting

<complex-block></complex-block>	Wireless LAN setting	g (Access point)		X
	Wireless LAN setting Wireless LAN unit setting Wireless LAN function Action Mode SSID Auth. method Wireless channel No. MAC address	Connected stations	OK	Cancel

3.9.3 Display contents when [Action Mode] is set to [Access point]

The following describes the setting of the wireless LAN function when [Action Mode] is set to [Access point].

■1. Wireless LAN unit setting

The following describes the setting items and the display contents of the wireless LAN setting.

	Wireless LAN setting		\times
	Wireless LAN unit setting	Connected stations	
	Wireless LAN unit setting		
(1) —	Wireless LAN function	No	
(2) —	Action Mode	Access point	ך ו
()	SSID	OPERAT001	
	Auth. method	None	
	Wireless channel No.	1	
	MAC address	00-9B-1D-FC-12-3A	
(3) —		OK Cance I	

(1) Wireless LAN function

Select whether to enable the wireless LAN function.

(2) Action mode, SSID, authentication method, wireless channel No., and MAC address Displays the action mode, SSID, authentication method, and wireless channel number that are set with GT Designer3.

Displays the MAC address of the wireless LAN communication unit that is mounted on the GOT.

(3) Setting change

Touch the [OK] button to restart the GOT to operate with the changed settings.

To cancel the setting change and return to the utility main menu, touch the [Cancel] button.

■2. Connected stations

The following describes the display contents of [Connected stations].

		Wireles	ss LAN setting				×
	L.	∛ireles	s LAN unit setting	Connected stat	ons		
		Conne	ected stations		`		
(1)		Con	nected stations: 3	Update list			
		Nc 1 2 3 4 5 6 7 8	00-3A-D1-12-FC-9B 12-FC-3A-9B-1D-00 1D-9B-1D-FC-12-3A	 			
(2)						OK	Cance 1

(1) Connected stations

The number of connected stations and MAC address are displayed.

Touch the [Update list] button to update the number of connected stations and their MAC addresses.

(2) Changing the settings

Touch the [OK] button to restart the GOT to operate with the changed settings. To cancel the setting change and return to the utility main menu, touch the [Cancel] button.

3.9.4 Display contents when [Action Mode] is set to [Station]

The following describes the setting of the wireless LAN function when [Action Mode] is set to [Station].

Wireless LAN communication unit setting

The following describes the setting of the wireless LAN function when [Action Mode] is set to [Station].

	Wireless LAN setting			X
	Wireless LAN unit setting	ionn. dest. AP setting		
	Wireless LAN unit setting			
	Wireless LAN function	No	_	
(1) —	Action Mode	Station		
(2)	Connection dest. ID	1		
(2) —	Reception field intensity	0 Weak	Strong	
		0: Discond.		
	MAC address	00-9B-1D-FC-12-3A		
(3) —			OK	Cance 1

(1) Wireless LAN function

Select whether to enable the wireless LAN function.

(2) Action mode, connection destination ID, reception field intensity, and MAC address Displays the action mode and the connection destination ID that are set with GT Designer3. Displays the reception field intensity that indicates the connection status between the GOT and the current destination access point.

Displays the MAC address of the wireless LAN communication unit that is mounted on the GOT.

(3) Setting change

Touch the [OK] button to restart the GOT to operate with the changed settings. To cancel the setting change and return to the utility main menu, touch the [Cancel] button.

■2. Destination access point setting

The following describes the display contents of [Conn. dest. AP setting].

W	ireless LAN setting				X
Wi	ireless LAN unit setting	Conn. dest. AP setting			
	Conn. dest. AP set	ting			
(1)	ID	Name	SS	ID	
	1 AccessPoir	nt1 R	oomAP1		
	2 AccessPoir		oomAP2		
	3 AccessPoir	nt3 R	oomAP3		
	4 AccessPoir	nt4 R	oomAP4		
	5 AccessPoir	nt5 R	oomAP5		
	6 AccessPoir	nt6 R	oomAP6		
	7 AccessPoir		oomAP7		
	8 AccessPoir	nt8 R	oomAP8		
(2)				ОК	Cance 1
(-/					ouncer

(1) Connection destination access point setting

Lists the ID numbers, names, and SSIDs of the destination access points that are set with GT Designer3.

(2) Setting change

Touch the [OK] button to restart the GOT to operate with the changed settings. To cancel the setting change and return to the utility main menu, touch the [Cancel] button.

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3.10.1 System launcher setting

You can enable or disable the online module change in the system launcher function. For the details of the system launcher function, refer to the following.

GOT2000 Series User's Manual	(Monitor)
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Item	Description	Setting range
Online module change	Enable or disable the online module change in the system launcher function.	Effective/Invalid <default: invalid=""></default:>

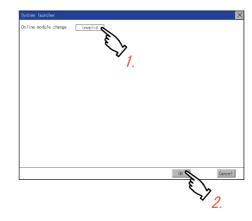
3.10.2 Display operation of the system launcher setting

Extended function setting	
[System]	System launcher
	OK Cancel

3.10.3 Setting procedure for the system launcher

■1. Online module change

Step 1. Touch the setting item to change the selection.



Step 2.Touch the [OK] button to restart the GOT and reflect the setting change.To cancel the setting change, touch the [Cancel] button to return to the [Ext. func. set] screen.

3.11 iQSS Utility

3.11.1 iQSS utility setting

You can set the drive for a data storage containing the profile data of iQSS-compatible equipment. For the details of the iQSS utility function, refer to the following.

Item	Description	Setting range	
Data save location	Select the drive for a data storage containing profile data.	A:Built-in SD card B:USB drive E:USB drive F:USB drive G:USB drive X:drive <default: x:drive=""></default:>	

GOT2000 Series User's Manual (Monitor)

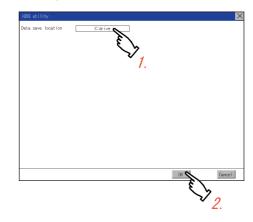
3.11.2 Display operation of the iQSS utility setting

Extended function setting	
OT basic set Ext. func. set Ministerance Monitor Data mms.	
Softigi - Off We server Setu program Backup Licenne Hungdreint	
Video/858 NulLinedia Touch	
[iQSS utility].	
07/04/2016 15:11:25	iQSS utility
	Data save location X:drive
	OK Cancel

3.11.3 Setting procedure for the iQSS utility

■1. Data save location

Step 1. Touch the setting item to change the selection.



Step 2.Touch the [OK] button to restart the GOT and reflect the setting change.To cancel the setting change, touch the [Cancel] button to return to the [Ext. func. set] screen.

3.12.1 ANDON connection setting

You can set the IP address of a client that connects to the GOT without the operator name and password-based authentication. (The authentication screen does not appear.) For the details of the ANDON connection, refer to the following.

GOT2000 Series User's Manual (Monitor)		GOT2000	Series	User's	Manual	(Monitor)
--	--	---------	--------	--------	--------	-----------

Item	Description	Setting range
ANDON IP filter usage	Set whether to limit the IP addresses targeted for the ANDON connection.	Yes/No <default: yes=""></default:>
Range	Set whether to set IP addresses by specifying a range. To specify a range, set the start IP address and the end IP address in [Target IP address].	Selected/Not selected <default: not="" selected=""></default:>
Target IP address	Set the IP addresses or IP address ranges targeted for the ANDON connection. Up to five settings can be made.	0.0.0.0 to 255.255.255.255 ^{*1} <default: blank=""></default:>

*1 Leave the boxes blank if you do not set any IP addresses.

Extended function setting	ANDON connection
[ANDON connection].	ANDON connection X ANDON IP filter usage Yes Transmit the access from the following address No. Range Target IP address 1 192.168.1.1 2 192.168.2.1 - 192.168.2.10 3

■1. Setting an IP address

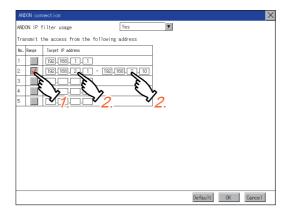
ANDON connection	×
ANDON IP filter usage Yes	
Transmit the access from the following address	E.
No. Range Target IP address	$\sim_{1.}$
1 192.168.1.1] 1.
	_
4 <u> </u>	
5	
	Default OK Cancel
	7
	×4.

- *Step 2.* Touch a start IP address entry box in the [Target IP address] column to display a software keyboard. Input a value with the keyboard.
- Step 3. To specify an IP address range, refer to the following.
 - ➡ (1) Specifying an IP address range
- *Step 4.* Touch the [OK] button to display a restart confirmation dialog. Restart the GOT to operate with the new setting.

To cancel the setting, touch the [Cancel] button to return to the main menu. To reset each item to its default, touch the [Default] button.

(1) Specifying an IP address range

Step 1. Touch a checkbox in the [Range] column to display the end IP address entry boxes in the [Target IP address] column.



Step 2. Touch any IP address entry box in the [Target IP address] column to display a software keyboard. Input a value with the keyboard.

Step 1. Touch the down arrow of the [ANDON IP filter usage] list box, and select [Yes].

3.12.4 Precautions

■1. Setting of [ANDON IP filter usage]

If you select [No] for [ANDON IP filter usage], any IP address can access the GOT without the operator name and password-based authentication.

When you use the ANDON connection, make sure to select [Yes] to limit the IP addresses that can access the GOT without the operator name and password-based authentication.

2. Configuring the IP filter setting

In the IP filter setting, allow the IP addresses targeted for the ANDON connection to access the GOT. Otherwise, the IP addresses cannot access the GOT using the ANDON connection.



MAINTENANCE 4.

The GOT can display the screen for maintenance. The following describes the functions available as the maintenance.

Item	Description	Reference
Batch self check	This function collects data about energization time, installed system application and others, and can display it in View self check results menu.	4.1
USB device management	This function controls the USB peripheral device connection status in the GOT.	4.2
Clean	The screen can be set as not to be effected by touching the screen when clean with clothes.	4.3
Touch panel calibration	Touch panel reading error can be corrected.	4.4
System alarm	Displays error code and error message when error occurs.	4.5
Drawing check	Carries out missing bit check, color check and drawing check.	4.6
Font check	Displays the character data on the screen to check visually.	4.7
Touch panel check	Checks whether there are no dead zone area in the Touch key minimum unit (16 dots x 16 dots).	4.8
I/O check	Carries out RS-232 connecting target confirmation and self-loopback check.	4.9
Ethernet status check	Sends a ping to check the Ethernet connection status.	4.10
GOT information	Displays information of the GOT.	4.11
GOT Mobile information	Displays the GOT Mobile function settings and the list of clients being connected to the GOT.	4.12

4.1 Batch Self Check

The Batch self check collects data about energization time, installed system application and others, and can display it in View self check results menu.

4.1.1 Batch self check

When an export destination of the system status log is specified in the batch self check screen, the data can be logged.

Item	Description
System status log,	Diagnostic data that the GOT system status has been logged

Also, the following information are displayed in View self check results menu.

Item	Description
Start up information	Information at power-on, Information at system start up
System status 1	Installed system application, installation history
System status 2	Communication driver, GOT system configuration information
Communication setting contents	Displays the controller status.
Operation history	Displays the operation history and execution time.
Screen switching history	Displays the screen switching history and execution time.
Clock change history	Displays the time before and after clock change.
System alarm history	Displays the alarm and alarm occurrence time.
CPU error history	Displays the ChNo., error messages and error occurrence time.
GOT start time history	Displays the time GOT was powered on.

4.1.2 Display operation of batch self check

Maintenance	Batch self check
	Batch self check X Export system status log A drive Batch self check Start

■1. Batch self check

Step 1. Touch the selection of [Export system status log] to switch the set drive. Each touch changes the selection in the following order: [A drive] → [B drive] → [E drive] → [F drive] → [G drive] → [Not exported] → [A drive]. If you select drive A, insert an SD card into the drive. If you select drive B, drive E, drive F, or drive G, install a data storage on the drive.

If the batch self check is started with no SD card or data storage installed, the system status log is not saved.

(The system status log is for manufacturer investigation only. Customers cannot view it.)

Export system status log	A drive	
Batch self check	Start	

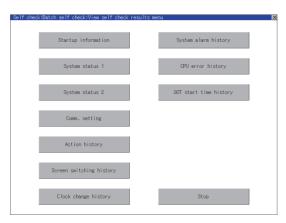
Step 2.Touch the [Start] button to start Batch self check.Touch the [×] button to return to the main menu.

Export system status log	A drive
Batch self check	Start
	Start batch self check?
	0 K Cancel

Δ

■2. View self check results menu

After completion of Batch self check, the following screen is displayed. Touch each item to display the details screen. Touch the [Stop] button to return to the Batch self check screen.



Display example of details screen

Touch the items to display the following screens.

Touch the [×] button to return to the View self check results menu.

Self check:Batch self	check:System status 1	×
installed 06	OS mane G1050105.00T G1050107.001 G1050107.001 G1050107.01 G1050107.610 G1050107.610 G1050107.610 G1050107.610 G1050107.610 G1050007.610 G1050007.610 G1050007.610 G1050007.610 G105002.00T G105002.00T G105002.00T	Version 04.00,75,11 04.00,75,2 04.00,75,2 04.00,75,2 04.00,75,2 04.00,75,2 04.00,52 04.00,52 04.00,52 04.00,54 04.00,54 04.00,54 04.00,55 04.00,54 04.00,55 05.00,55 04.0
Ste	rtup information	System status 2

Touch the button in the left bottom of the screen to display the previous screen. Touch the button in the right bottom of the screen to display the next screen.

4 - 4

4.2.1 Function of the USB device management

This function displays a list of the USB peripheral device connection status in the GOT. Also, this screen is used to remove the USB peripheral device from GOT.

4.2.2 Display operation of the USB device management

	evice manager	nent		×
No.	Device	Vendor/product	Drive	Attach
1	USB mass storage	****	B	Stop
2				
3				
4				
5	USB mouse			
6	USB keyboard	XXXXXXX XXXXXXXXXXXXXXXX		
7				
8				
	1		1	

4.2.3 USB device status display operation

 No.
 Device management

 No.
 Device for data

 1
 US mass storage

 2
 1

 3
 2

 4
 1

 5
 US nouse

 8
 US heyboard

 8
 1

Step 1. When the USB peripheral device is installed to GOT, the screen shown below is displayed.

- Step 2. USB mass storage is displayed in Device, and [Stop] button is displayed in Attach.
- Step 3. When the [Stop] button is touched, the dialog box shown below is displayed.
 Touch the [OK] button to prepare the USB peripheral devices removal.
 Touch the [Cancel] button to cancel the preparation of USB peripheral devices removal.

Do you want to stop USB device?	
0 K Cancel	

Step 4. When the preparation of removal is ready, the dialog box shown below is displayed.



Step 5. To close the dialog box, touch the [OK] button.

4.3 Screen Cleaning

4.3.1 Screen cleaning function

You can display the dedicated screen for cleaning the GOT.

The touch operation is disabled on the dedicated screen, and therefore wiping the GOT display section with a cloth or others does not operate the GOT.

For information on how to clean the GOT, refer to the following.

GOT2000 Series User's Manual (Hardware)

4.3.2 Display operation of the screen for cleaning

Maintenance	aning].
Information	Screen cleaning Please press the upper left of ① of the screen

To switch to the utility screen, touch the upper-left corner and then the upper-right corner of the screen.

4.3.3 Operation of clean

After cleaning the screen, touch the screen following the instruction displayed. After touching the screen, the screen returns to the Main Menu. The following screen is displayed.

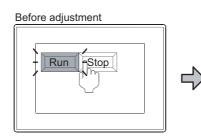


4.4.1 Touch panel calibration setting

Touch panel reading error can be corrected.

Normally the adjustment is not required, however, the difference between a touched position and the object position may occur as the period of use elapses.

When any difference between a touched position and the object position occurs, correct the position with this function.

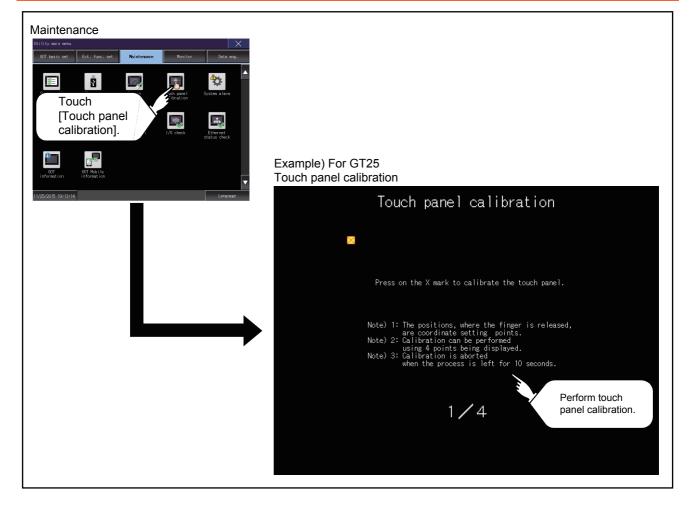


The [Run] will operate though you intended to touch the [Stop] button.

After adjustment

The [Stop] button can be touched without fail.

4.4.2 Display operation of the touch panel calibration setting



Ζ

4.4.3 Touch panel calibration operation

Touch the \boxtimes point displayed on the screen with the finger one by one to make the setting. Example) For GT25

Step 1. Touch the center of the \boxtimes displayed on the upper left precisely.



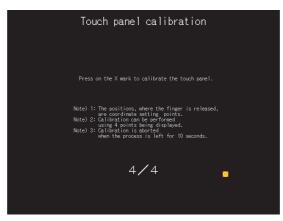
Step 2. Touch the \boxtimes point displayed on the upper right.



Step 3. Touch the \boxtimes point displayed on the lower right.



Step 4. Touch the \boxtimes point displayed on the lower right.



Step 5. Touching the ⊠ button displayed on the upper right returns to the previous screen. When the precise touch could not be made, touch the [Readjustment] button to make the setting from step1 again.

Touch panel calibration	×
Completed adjustment of coordinates on touch panel.	
Touch the x button in the upper right corner to close this screen.	
If the x button does not work well then touch the button below for readjustment.	
Readjustment	

Ζ

4.5.1 System alarm

The system alarm function displays the error code and error message when an error occurs in the GOT, GOT Mobile function client, network, or controller.

System alarms can be reset on the System alarm display screen. For the details of the system alarm, refer to the following.

🗯 8. SYSTEM ALARM DISPLAY AND LIST

4.5.2 Display operation of system alarm

Maintenance	System alarm
	System alarm GOT error: Chlo.1 402 Communicat When [Reset] is touched, or the system alarm display of the GOT error is reset. CPU error: No Error Network error No Error

4.5.3 Operation of system alarm display

■1. System alarm display resetting

- Step 1. Eliminate each cause of the system alarm being occurred. Error causes can be identified by the error code, error message and channel No. displayed on the System alarm screen.
 - GOT2000 Series User's Manual (Hardware)

System alarm	×
GOT error: ChNo. 1	Reset
402 Communication timeout. Confirm communication pa	thway or modules.
	15:25:00
CPU error:	
No Error	
Network error	
No Error	

Step 2. A method for resetting system alarm depends on an error.

· GOT error

Touch the [Reset] button to reset system alarms.

CPU error and Network error

The system alarm is automatically reset after its cause is eliminated.

System alarm	\times
GOT error: ChNo. 1	
402 Communication timeout. Confirm communication pathway or modules.	8
15:25:00	
 CPU error:	— K Touch
No Error	
Network error	
No Error	

POINT

(1) Before resetting the system alarm display in the GOT error

Eliminate the system alarm cause before resetting the system alarm display in the GOT error.

If not eliminated, the system alarm display in the GOT error will not be reset even after the reset operation.

(2) Displaying a GOT Mobile error A GOT Mobile error is displayed as a GOT error.

(3) Processings with reset operation

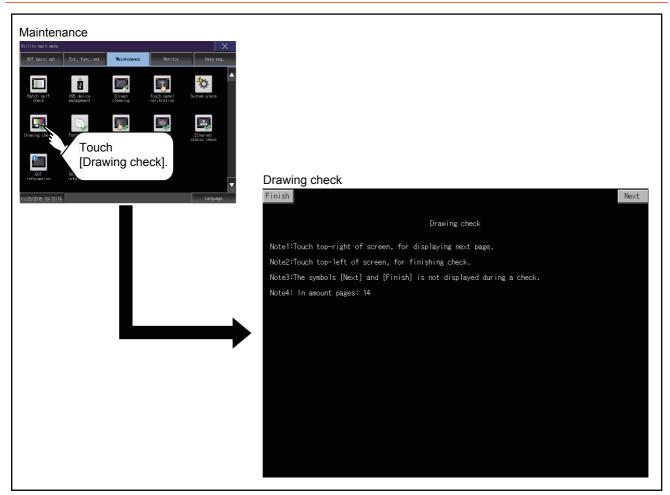
The following data in the system information are also reset.

- GOT error code (Write device)
- GOT error detection signal (System Signal 2-1.b13)

4.6.1 Drawing check function

The drawing check function carries out display checks as missing bit check, color check, basic figure display check, move check among screens.

4.6.2 Display operation of drawing check



POINT

Notes on drawing check

Missing bits is occurred in the following cases.

1.	There are parts drawn in different color with the filled color.
	There are parts of basic figure and drawing patterns which are not drawn according to the layout and
2.	procedures described in "4.6.2 Display operation of drawing check".

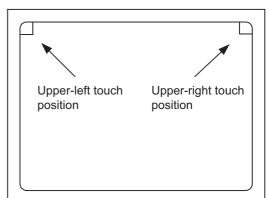
When missing bits occurs, contact your local Mitsubishi (Electric System) Service.

4.6.3 Drawing check operation

Touch [Drawing check] to display the drawing check screen.

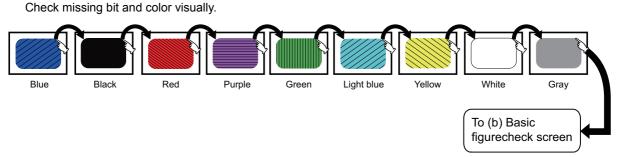
■1. Before execute drawing check

Touching the upper right part of the screen proceeds to the next check in each step during drawing check. Touching the upper left part of the screen returns to the [Display check] screen.



(1) Missing bit, Color Check

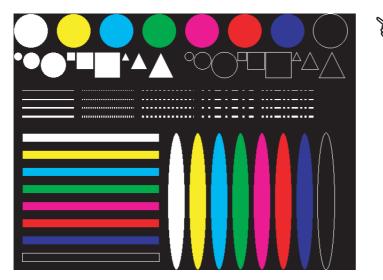
Each touch of the upper-right part of the screen, the entire screen color changes in the following order: blue, black, red, purple, green, light blue, yellow, white, and gray.



If touch the upper right part of the screen at the final color (white screen), the following 2) Basic figure check screen is displayed.

(2) Basic figure check

Check whether there is no shape transformation of basic figure or display losses. The basic figure drawn has 4 types: 1. Filled circle, 2. Line, 3. Rectangle, 4. Ellipse.

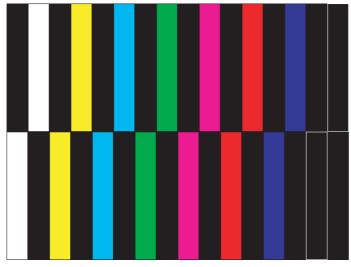


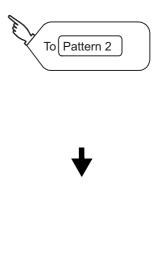
To Pattern 1 of (c) Move check among screen

(3) Move check among screens

(a) Pattern 1: Shape transformation, color check

The drawn figures are displayed in order and at regular intervals. If the shape and color are displayed visually in order, it is normal.

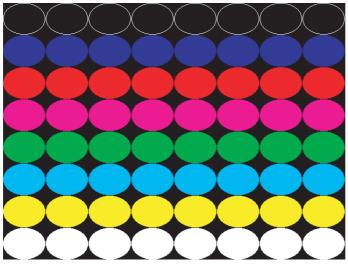




Pattern 1

(b) Pattern 2: Shape transformation, color check

The drawn figures are displayed in order and at regular intervals. If the shape and color are displayed visually in order, it is normal.

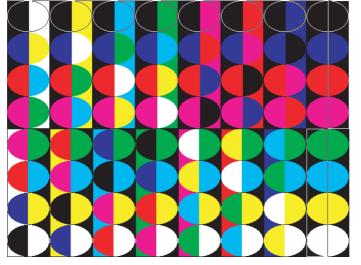




Pattern 2

(c) Pattern 3: Shape transformation, color check

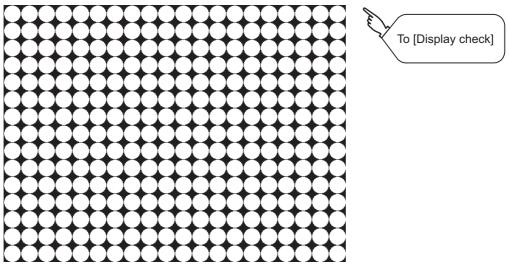
The overlapped shapes of pattern 1 and pattern 2 are displayed. If the shape and color are displayed visually in order, it is normal.





(d) Pattern 4: Shape check

The drawn figures are displayed in order and at regular intervals. If the shape and color are displayed visually in order, it is normal. If touch the upper right part of the screen, returns to [Display check] screen.



The main screen image after the screen information read and write is executed

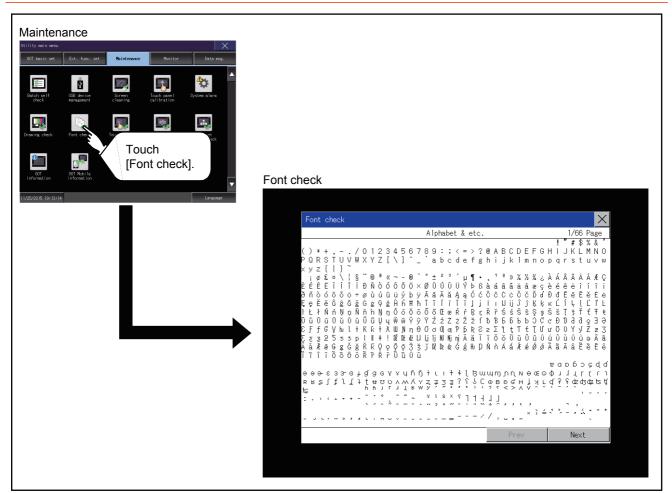
Δ

4.7 Font Check

4.7.1 Font check function

The font check is a function which confirms fonts installed in GOT. The character data of the font is displayed on the upper left part of the screen one by one.

4.7.2 Display operation of Font check



POINT

Display operation of Font check

Judged as normal if the following characters are correctly displayed. (UNICODE)

Alphabetic characters etc.	: 0x0000 to 0x04F9 (From basic Latin to Kirill)
Hangul characters	: 0xAC00 to 0xD7A3 (Hangul/Hangul auxiliary)
Kanji	: 0x4E00 to 0x9FA5 (CJK integrated Kanjis)

If the characters above are not displayed correctly, the fonts may not be installed. Install the system application again.

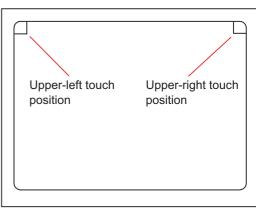
4.7.3 Font check operation

Touch [Font check] to start the font check.

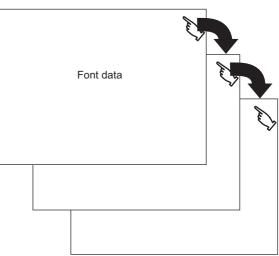
The character data of the built-in font (in the built-in flash memory) can be checked visually to confirm the font drawings by displaying the character data serially on the screen.

■1. Before execute font check

Touching the upper right part of the screen proceeds to the next check in each step during Font check. Touching the upper left part of the screen returns to the [Display check] screen.



The installed font data is displayed by touching the upper right part of the screen.



POINT

Option fonts

To display optional fonts, the following is required.

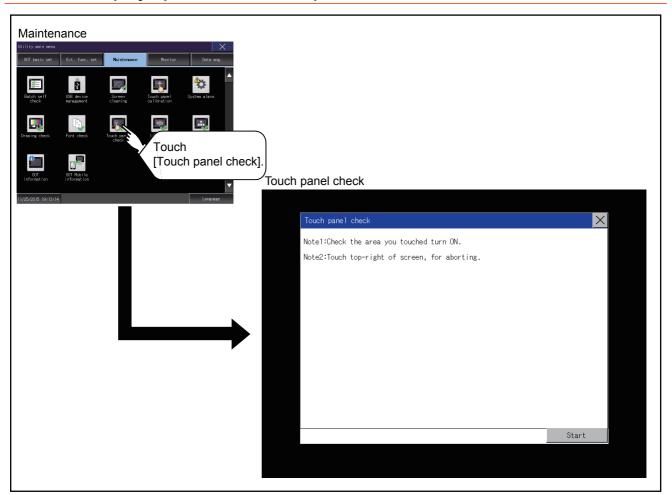
· The option font installation

The option fonts are displayed at the end.

4.8.1 Touch panel check function

Touch panel check is a function which checks whether there is no dead zone area in touch key minimum unit (16 dots × 16 dots).

4.8.2 Display operation of Touch panel check



POINT

Notes on Touch panel check

If the touched part is not filled with yellow color, there are the following two possible causes.

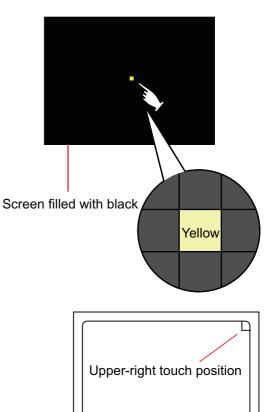
- 1. Display part failure
- 2. Touch panel failure

In that case, contact your local Mitsubishi (Electric System) Service.

Touch panel check operations 4.8.3

Touch [Touch panel check] to display the screen filled with black.

Step 1. Touch a part of the screen. The touched part becomes a yellow-filled display.



To return to the previous screen, touch the upper Step 2. right part of the screen..

POINT

Checking the upper right part of the screen

Only the upper right part of the screen cannot be filled with yellow.

If you can return to the previous screen by touching the upper right part of the screen, the part is judged to be normal.

4.9 I/O Check

4.9.1 I/O check function

The I/O check is a function which checks whether GOT and PLC can communicate with each other.

If I/O check ends normally, the communication interface and the connection cable hardwares are normal.

To execute I/O check, the communication driver has to be installed in GOT in advance from GT Designer3 or GT Designer2. Note that the GOT restarts when this function is performed.

Refer to the following for the details related to the installation of the communication driver.

GT Designer3 (GOT2000) Screen Design Manual

■1. Communication drivers inapplicable to I/O check

When the following communication drivers are used, the I/O check cannot be executed.

	Connection type	Communication driver	
	MELSECNET/H connection	MELSECNET/H	
	MELSECNET/10 connection	MELSECNET/H	
Connection to	CC-Link IE Controller Network connection	CC-Link IE Controller Network	
MITSUBISHI PLC	CC-Link IE Field Network connection	CC-Link IE Field Network	
	CC-Link connection (Intelligent device station)	CC-Link Ver.2(ID)	
	Ethernet connection	Ethernet (MELSEC), Q17nNC, CRnD-700, gateway	
Connection to F	UJI PLC	FUJI PXR/PXG/PXH	
Connection to Y	YASKAWA PLC	YASKAWA GL YASKAWA CP9200(H) YASKAWA CP9300MS (MC compatible) YASKAWA MP2000/MP900/CP9200SH Ethernet (YASKAWA), gateway	
Connection to YOKOGAWA PLC		YOKOGAWA FA500/FA-M3/STARDOM Ethernet (YOKOGAWA), gateway	
Connection to ALLEN-BRADLEY PLC		EtherNet/IP(AB), gateway	
Connection to SIEMENS PLC		SIEMENS S7-200 SIEMENS S7-300/400 Ethernet(SIEMENS S7), gateway	
Microcomputer connection		Microcomputer connection	
Inverter connection		FREQROL 500/700	
MODBUS(R)/TCP connection		MODBUS/TCP, gateway	
AZBIL control equipment connection		Azbil SDC/DMC	
Connection to F	RKC temperature controller	RKC SR Mini HG (MODBUS)	

Will by rails need Image: Construction of the series Will by rails need Ext. func. set Image: Construction of the series Will by rails need Ext. func. set Image: Construction of the series Bit of the series Image: Construction of the series Image: Construction of the series Bit of the series Image: Construction of the series Image: Construction of the series Bit of the series Image: Construction of the series Image: Construction of the series Construction of the series Image: Construction of the series Image: Construction of the series Intervention Image: Construction of the series Image: Construction of the series Intervention Image: Construction of the series Image: Construction of the series Intervention Image: Construction of the series Image: Construction of the series Intervention Image: Construction of the series Image: Construction of the series Intervention Image: Construction of the series Image: Construction of the series Intervention Image: Construction of the series Image: Construction of the series Intervention Image: Construction of the series Image: Construction of the series Intervention <	/O check				
	1/0 check				×
			ChNo.	Interface/Unit name	I/O check execution
	Standard I/F		0	R\$422/485	
		1/F-2	1	RS232	CPU
	Extend I/F	1st	0	None	
		2nd 3rd	0	None None	I

4.9.3 I/O check operation

■1. Connecting target confirmation

If touch [CPU] button, the connecting target confirmation communication check is carried out.

- *Step 1.* After the CPU communication starts normally, the dialog mentioned right notifying that it is on checking, until the connecting target confirmation communication ends normally.
- Step 2. When the connecting target confirmation communication ends, its result is notified by dialog.

If the connecting target confirmation communication ends normally, the dialog notifying of the normal termination mentioned right is displayed. If touch [OK] button in the dialog after confirming the result, returns to [I/O check].

CPU communication check Executing now
CPU communication check No error
0 К

If the dialog mentioned right is displayed after selecting connecting target confirmation or during CPU communication check, confirm the following.

- No misconnection with CPU
 - GOT2000 Series Connection Manual for the controller used
- No missettings of parameter
 - 2.10.3 Controller contents
- Check if the hardware has no problems.

GOT2000 Series User's Manual (Hardware) If touch [OK] button in the dialog after confirming the result, returns to [I/O check].

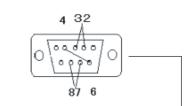
■2. Self-loopback

If touch [Self], the hardware check of RS-232 interface is carried out.

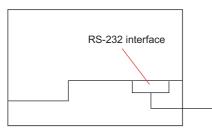
Step 1. For preparation for the self-loopback communication check, insert the connector for self-loopback check (Customer purchased) shown in the diagram right in the RS-232 interface.
 For this connector, short 2 and 3 pins, 7 and 8 pins and 4 and 6 pins, respectively.

In the communication setting of the GOT utility, set the channel number for the RS-232 interface to 0 ([None]).

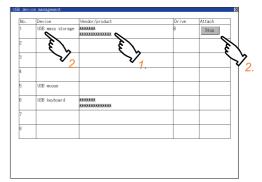




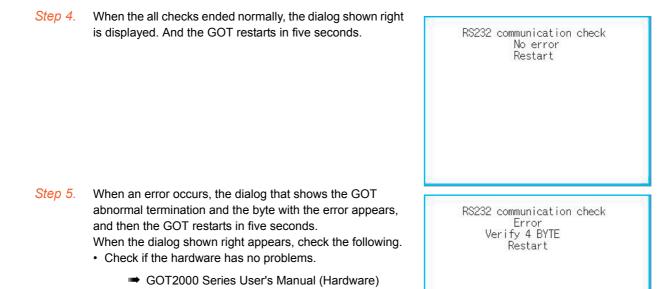
Display unit (rear face)



- Step 2. After selecting [Self], the transferred data and received data are verified through the self-loopback connector. When the GOT cannot receive the data during the data transmission, the dialog shown right appears and the GOT restarts in five seconds.
 - When the dialog shown right appears, check the following.
 - Check if the pins of the connector for self-loopback check are incorrectly shorted.
 - Check if the channel number for the RS-232 interface is set to 0 ([None]) in the communication setting of the GOT utility.
 - ➡ 2.10.3 Controller contents
 - Check if the hardware has no problems.
 - GOT2000 Series User's Manual (Hardware)
- Step 3. During check, the dialog shown right is displayed.





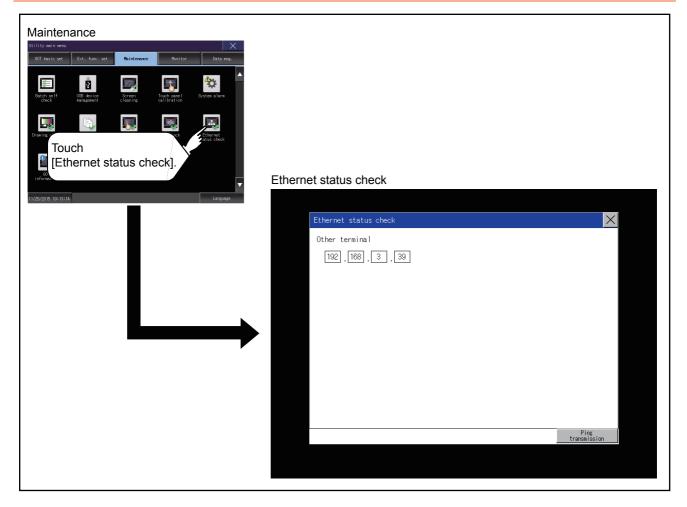


MAINTENANCE

4.10.1 Ethernet status check function

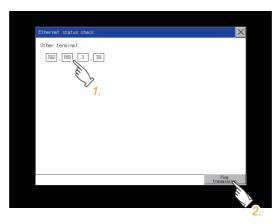
Ethernet status check is a function that sends a ping to check the connection status with the equipment on the Ethernet.

4.10.2 Display operation of Ethernet status check



4.10.3 Operation of Ethernet status check

Step 1. If touch the select button of [IP address of the other terminal], a keyboard is displayed. Enter the IP address of the other terminal with the keyboard. <Default: 192.168.3.39>



Step 2. If touch the [Ping transmission] button, a ping is sent to the IP address entered in [IP address of the other station].

The result is displayed in the dialog. The timeout time is about 5sec.

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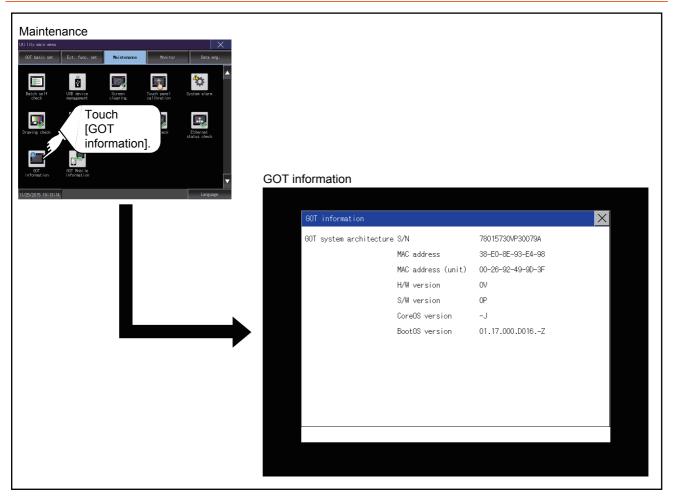
4.11 GOT Information

4.11.1 GOT information

This function displays the following contents of the GOT information.

- Serial number
- · MAC address of the Ethernet interface built in the GOT
- · MAC address of the Ethernet communication unit
- Hardware version
- · Software version at factory default
- · CoreOS version
- · BootOS version

4.11.2 Display operation of GOT information



4.11.3 Display of GOT information



Item	Description	
S/N	Displays the serial number.	
MAC address	Displays the MAC address of the Ethernet interface built in the GOT.	
MAC address (unit)	Displays the MAC address of the Ethernet communication unit. Displays [-] when the Ethernet communication unit is not mounted.	
H/W version	Displays the H/W version.	
S/W version	Displays the S/W version at factory shipment.	
CoreOS version	Displays the CoreOS version.	
	Displays the BootOS version.	
BootOS version	01.17.000.D016. <u>-Z</u> ^L BootOS	

4

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4.12.1 GOT Mobile information

This function displays the GOT Mobile function settings and the list of clients being connected to the GOT. For the GOT Mobile function settings, refer to the following.

Image: GT Designer3 (GOT2000) Screen Design Manual

4.12.2 Display operation of the GOT Mobile information

Maintenance		
	GOT Mobile Information GOT Mobile Information GOT Mobile Setting List of Simultaneous client connection Port No. Auto disconnection time	f connected clients 5 units 80 30 Min.(O:None)

■1. GOT Mobile information

You can check the GOT Mobile function settings.

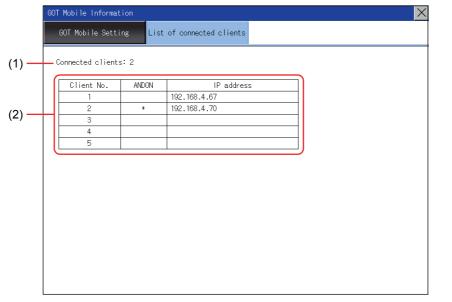
	GOT Mobile Information	×
	GOT Mobile Setting List of connected clients	
(1) —	Simultaneous client connection 5 units	
(2) —	Port No. 80	
(3) —	Auto disconnection time 30 Min.(0:None)	

Δ

Item	Item	Description
(1)	[Simultaneous client connection]	Maximum number of clients connectable to the GOT simultaneously
(2)	[Port No.]	Port number of the GOT to which clients are connected
(3)	[Auto disconnection time]	Time period until a client is automatically disconnected from the GOT if no operation is performed on the client

■2. List of connected clients

You can check the clients being connected to the GOT.



Item	Item	Description	
(1)	[Connected clients]	Number of clients being connected to the GOT	
(2)	IP address list	Displays the IP addresses of the clients being connected to the GOT. The IP address is displayed for each client number. A client using the ANDON connection is marked with an asterisk [*] in the [ANDON] column.	



5. MONITOR

5.1 Monitor Screens

The monitor screens are designed to confirm the device status of PLC CPU and to make the response for PLC system trouble more efficient.

In this manual, the overview of the monitor screens and the operation procedure until displaying the screen are described. For display contents and operation procedure of monitor screens, refer to the following manual.

GOT2000 Series User's Manual (Monitor)

5.1.1 Function of monitor screens

The following shows the functions that can be performed with the monitor screens. The sequence program monitor (R ladder) will be supported soon.

Item	Description
System launcher	Displays the menu for a module selected in the system configuration diagram, and launches a target application from the menu.
Device monitor	Monitors or tests the devices of a PLC CPU and the buffer memory of an intelligent function module.
Sequence program monitor (Ladder)	Monitors the program of a QCPU or LCPU in the ladder format.
Sequence program monitor (R ladder)	Monitors the program of an RCPU in the ladder format.
FX ladder monitor	Monitors the program of a PLC CPU in the ladder format.
Network monitor	Monitors the status of the MELSECNET/H network, MELSECNET(II) network, CC-Link IE Controller Network, and CC-Link IE Field Network.
Intelligent module monitor	Monitors the buffer memory of an intelligent function module on a dedicated screen and the signal status of an I/O module. Data change is also available on the dedicated screen.
Servo amplifier monitor	Various monitor functions, parameter change, test operation, etc. of the servo amplifier are available.
Q motion monitor	The servo monitor and the parameter setting of the motion controller CPU (Q series) are available.
R motion monitor	The servo monitor and the parameter setting of the motion controller CPU (MELSEC iQ-R series) are available.
CNC monitor	The position display monitor, alarm diagnosis monitor, tool compensation parameter, and program monitor, and others, which are equivalent to the MELDAS dedicated display, are available.
CNC monitor 2	Monitors the information required for the operation, setup, diagnosis, and maintenance of the CNC C80 connected to the GOT. Setting and inputting or outputting the data of the CNC C80 are also available.
Sequence program monitor (SFC)	Monitors the program of a PLC CPU in the SFC diagram format (MELSAP3 or MELSAP-L format).
Motion SFC monitor	Monitors the motion SFC programs and device values in a motion controller CPU (Q series).
Log viewer	Views logging data collected by a high speed data logger module or LCPU. Reads logging data via the GOT.
Network status display	Monitors the network status using a communication unit mounted on the GOT.
FX list editor	The sequence program of FXCPU can be list edited.
CNC machining program edit	Editing the machining program of the CNC connected to the GOT is available.
CNC data I/O	Copying, verifying, and deleting the machining programs, parameters, and others of the CNC connected to the GOT is available.
MELSEC-L troubleshooting	Displays the status of a LCPU and the buttons to call up the functions for troubleshooting.
iQSS utility	Monitors iQSS-compatible sensors. Parameter change is also available.
Drive recorder	Reads the data prior to and subsequent to an alarm from a connected servo amplifier, and displays the data (including motor current values and position commands) in waveform or list form on the GOT.

Wilter water mere Wilter water mere Wilter water mere Witter water mere <t< th=""><th>Displays the monitor function (in the case of device monitor)</th></t<>	Displays the monitor function (in the case of device monitor)
	Device monitor 4 screens Quit Selected ChNo.1 NetNo.0 St.No.0 Ch No [1] NETWK No] STATION [] CPU No] (0~4) ChNo Comm. Driver I I A/QnA/L/QCPU,L/QJ71C24 I I I A/QnA/L/QCPU,L/QJ71C24 I I I I I I I I I I I I I I I I I I I I I I I I I I I

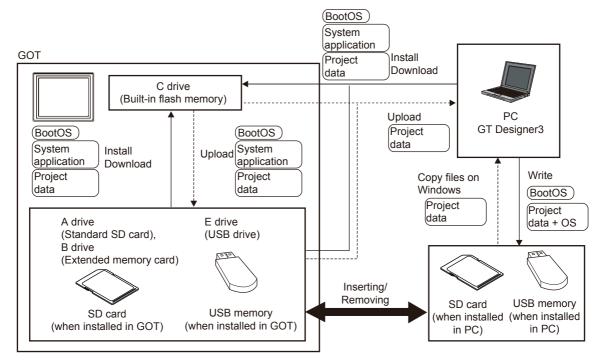
6. DATA CONTROL

A system application, project data (screen data), or alarm data which is written in the GOT or data storage can be displayed, and the data can be transferred between the GOT and data storage. The format of the data storage is also possible.

6.1 Data Type and Storage Location

■1. System

The data storage location and transferring (write/read) route for each data type are shown below. Also, the data storage locations are shown below.



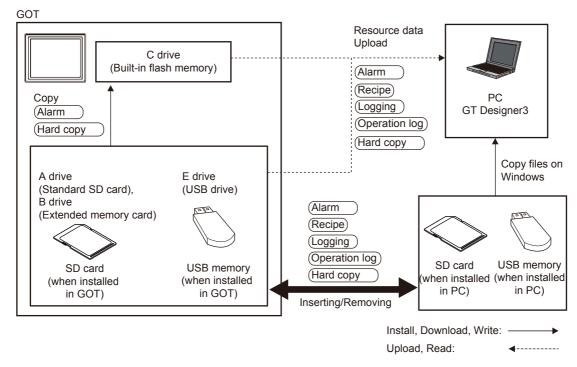
Item	Data type	Storage location	
BootOS	BootOS	Built in flash memory (C drive)	
	Basic system application		
(System application) ₊1	PLC communication driver	 Built-in SD card (A drive) Built in flash memory (C drive)^{*2} 	
	System application (Extended function)		
Project ^{*1} data	Project data (Including recipe setting, alarm conditions, time action, and GOT setup.)	 Built-in SD card (A drive)^{*2} Built-in flash memory (C drive)^{*2} 	

*1 The USB memory can be used from Utility.

7.3.2 Installing using the data control function (Utility)

*2 When using the project data stored in the Built-in SD card (A drive) with the GOT, hold the SD card installed to the GOT. For the USB memory, store the project data to the Built-in SD card (A drive) or built-in flash memory (C drive).

■2. At maintenance



The data of the build in flash memory (Project data, etc.) can be saved even if the battery voltage becomes low.

Item	Data type	Storage location
Alarm	Alarm data (Alarm log file)	
Recipe	Recipe data (Advanced recipe file, Recipe file)	 Built-in SD card (A drive) USB drive (B drive)^{*1}
Logging	Logging (Logging file)	 USB drive (E drive)^{*1} USB drive (F drive)^{*1}
Operation Log	Operation log (Operation log file)	• USB drive (G drive) ^{*1}
(Hard copy)	Image file (Hard copy function)	

*1 The USB memory can be used from Utility.

7.3.2 Installing using the data control function (Utility)

■3. OS version confirmation

Confirm the system application version carefully when installing the BootOS and basic system application. When the system application is installed, the GOT checks and compares the system application version automatically.

(1) When install BootOS

When the BootOS to be installed has the older major version, GOT displays the installation disapproving message to cancel the installation so that the older version may not be written.

(Even when the version of the BootOS to be installed has the same or later version, the version information and the dialog box for selecting continue/not continue will be displayed.)

Depending on the installation method, the dialog to be displayed varies.

• When installing from the Built-in SD card, the dialog is displayed by the main unit.

• When installing from GT Designer3 via USB, RS-232, or Ethernet, the dialog is displayed by GT Designer3.

(2) When install basic system application, communication driver, or system application (Extended function)

When a basic system application, communication driver, or system application (Extended function) has already been installed, the version information of the system application which has been installed and the dialog for selecting whether to continue the installation or not will be displayed.

Moreover, when the different versions will coexist among all applications (basic system application, communication driver, and system application (Extended function)) by installing the system application, the installation disapproving dialog will be displayed and the installation process is canceled.

(3) When download project data

The GOT automatically compares the version between the project data to be downloaded and the installed system application.

When the versions are different, the dialog confirming whether to install the system application together is displayed.

When downloading the project data from a data storage, storing the project data and system application beforehand is recommended.

POINT

Version confirmation of BootOS by rating plate

Confirm the version of BootOS installed in the GOT at product shipment by rating plate of GOT rear face.

MITSUBISHI PASSED GRAPHIC OPERATION TERMINAL MODEL MODEL GT2708-VTBA IN 100-240VAC 50/60Hz POWER MAX 100VA MACADD. 123456789012 SERIAL 00013910(ÅAD0000-A DATE 2013-09	
	(In case that the BootOS is two digits, only the first digit is written.)

■4. Capacity confirmation of the project data downloading location

When download the project data, confirm the capacity of the user area in the drive to which transferred, the transferred project data size, the transfer size and buffering area size of the system application (Extended function) in advance to judge whether to carry out the download.

The capacities can be confirmed by GT Designer3.

Refer to the following for details.

GT Designer3 (GOT2000) Screen Design Manual

6.2.1 Function of alarm information

This function displays the alarm log file stored in each drive (A: Standard SD card, B: USB drive, E: USB drive, F: USB drive, G: USB drive).

The functions below can be carried out for files.

The USB drive only stores log files, and cannot be displayed.

For details of the alarms, refer to the following.

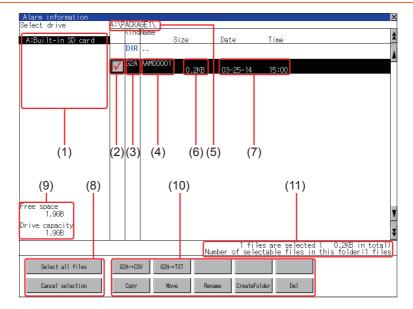
GT Designer3 (GOT2000) Screen Design Manual

Function	Description	Reference
Information display of files and folders	Displays name, data size, creation date and time of file or folder.	6.2.3 The display example of alarm information,6.2.4 Alarm information operation
$\text{G2A} \rightarrow \text{CSV conversion}$	Converts the G2A file of an advanced alarm log file to a CSV file.	2. G2A \rightarrow CSV conversion operation, G2A \rightarrow TXT conversion operation
$G2A \rightarrow TXT \text{ conversion}$	Converts the G2A file of an advanced alarm log file to a TXT file.	2. G2A \rightarrow CSV conversion operation, G2A \rightarrow TXT conversion operation
Deletion	Deletes the file.	3 . Deletion operation
Сору	Copies the file.	■ 4. Copy operation

6.2.2 The display operation of alarm information

Data management Ut ter man men To take of to take o	A : Built-in CF card GIA AMM0001 0.1KB 09-03-09 13:14
	E : USB drive
	Free space 481.6MB Trive capacity 483.0MB
	1 files are selected (0.1KB in total) Number of selectable files in this folder:1 files
	Select all files 61A-XCSV 61A-XTXT 6raph
	Cancel selection Copy Del

6.2.3 The display example of alarm information



Number	Item	Description
(1)	Select drive	The drive which displays file or folder can be selected. When an SD card or USB memory is not installed, the following drives are not displayed. • SD card: [A: Built-in SD card] • USB memory: [B: USB Drive], [E: USB Drive], [F: USB Drive], and [G: USB Drive]
(2)	Check box	If the check box is selected, up to 512 files can be selected.
(3)	Kind	Indicates whether the displayed name is file or folder. Displays the extension for a file and "DIR" for a folder.
(4)	Name	Displays the file name or folder name. For the long file/folder name, entire part may not be displayed. Confirm the non-displayed part with the [Copy] button, etc. ■ ■ ■ 4. Copy operation After confirmation, touch the [Cancel] button to cancel the operation.
(5)	Path name	Displays the path name of drive /folder which is currently displayed.
(6)	Size	Displays the size of the file displayed in Name.
(7)	Date and time	Displays the creation date and time of each file.
(8)	The size of drive	Displays the size in use and the entire size of the drive which is selected by drive selection.
(9)	Select all files/Cancel selection	Multiple files can be selected or canceled at once. Touch the [Select all files] button to select all files. If the number of the displayed files exceeds 513, the first 512 files are selected.
(10)	Operation switch	Execution switch of each function.
(11)	Number of folders and files	Displays the total number of the displayed files and folders.

POINT

Display of creation date and time

The creation date and time display is not updated even if a file is created or updated while displaying the alarm information display screen.

If close the screen currently displayed (moving the screen to the folder of the upper hierarchy, etc.) and display the screen again, the updated contents are displayed.

6.2.4 Alarm information operation

■1. The display operation of alarm information

Step 1. If touch a drive of [Select drive], the information of the touched drive is displayed.

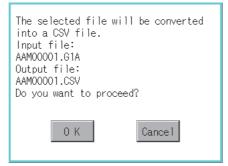
Data control:Data cont: Select drive	rol:Aları A:\	n info				×
	Kin	Name				4
A : Built-in CF card	🔽 G1A	AAM00001	Size	Date	Time	Ê
	V	PROJECT1	0.1KB	09-03-09	13:14	4
		PROJECTI		09-03-09	13:14	
E : USB drive						
E · OOD GITTE						
Free space						
481.6MB						Ŧ
Drive capacity 483.0MB						¥
			N	1 file umber of selec	s are selected (0.1KB in total) table files in this folder:1 files	1
Select all files	G1A->C	SV G1A-			Graph	
Cancel selection	Сору				Del	

- Step 2. If touch a folder name, the information of the touched folder is displayed.
- Step 3. If touch a folder of ". .", the information of the folder of the one upper hierarchy is displayed.
- *Step 4.* If touch the ▲ ▼ button of the scrollbar, the screen scrolls up/down by one line. If touch the ▲ ▼ button, the screen scrolls up/down by one screen.
- Step 5. Touch the check box to select the file.
- Step 6. For operations of G2A → CSV conversion, G2A → TXT conversion, deletion, and copy, refer to the following.
 - * G2A \rightarrow CSV, G2A \rightarrow TXT
 - 2. G2A \rightarrow CSV conversion operation, G2A \rightarrow TXT conversion operation
 - Delete
 - 3. Deletion operation
 - Copy
 - ➡ ■4. Copy operation
- Step 7. If touch the [x] button, the screen is closed.

2. G2A \rightarrow CSV conversion operation, G2A \rightarrow TXT conversion operation

The selected G2A file is converted to a CSV file or TXT file.

- Step 1. Touch the check box of the G2A file which is to be converted to a CSV file or TXT file to select the file.
- Step 2. The following dialog box is displayed when touching the following button according to the file type to convert to.
 - * CSV file: [G2A \rightarrow CSV] button
 - + TXT file: [G2A \rightarrow TXT] button



Step 3. Touch the [OK] button.

When the file, whose name is the same, exists in the destination folder, the dialog box showed below appears without starting the conversion.

To overwrite the file, touch the [OK] button.

To cancel the conversion, touch the [Cancel] button.

(Example: Dialog box when the [G2A \rightarrow CSV] button is touched)

This folder already contains the file AAM00001.CSV.
Do you want to replace the existing
file Modified: 09-03-09 13:34
with this one?
Modified: 09-03-09 13:27
0 K Cancel

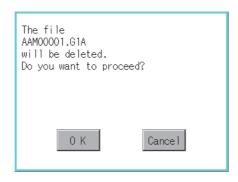
Step 4. The message of completion is displayed in dialog box when conversion is completed. To close the dialog box, touch the [OK] button.

Process completed.						
0 К						

■3. Deletion operation

Deletes the selected file.

- Step 1. Touch the check box of the file to delete to select the file.
- Step 2. If touch the [Del] button, the dialog box mentioned below is displayed.If touch the [OK] button, the file is deleted.If touch the [Cancel] button, the deletion is canceled.



Step 3. When the deletion is completed, the completion dialog box is displayed. To close the dialog box, touch the [OK] button.



■4. Copy operation

Copies the selected file.

- Step 1. Touch the check box of the file to copy to select the file.
- Step 2. If touch the [Copy] button, the message [Please select a destination.] is displayed in the following bottom of the screen.

Data control:Data con	rol:A	larm	into							
elect drive	A:\	KindN	0.000							
A : Built-in CF card				Size		Date	T	ime		
	V.		AM00001		1KB	09-03-0	9 1			
		DIR P	ROJECT1							
						09-03-0	1	3:42		
E : USB drive										
E · USD drive										
ree space 477.9MB										
rive capacity										
483.0MB										
						1.4	i los s	re selected	(0.1KB	in total
					Numb	er of se	lectab	re selected le files in	this folde	er:1 files
lease select lestination		Exec.	Can	rel						
estimation			Call							

Step 3. If the copy destination folder is touched, the screen display is changed to the folder of copy destination. At this time, it cannot be copied into the same folder where the file exists. Select other folders. Step 4. If touch the [Exec] button, the dialog box mentioned below is displayed.

The target file to c AAMOOOO1.G1A Do you want to copy	
0 K	Cance 1

Step 5. Touch the [OK] button.

If there is a file of the same name in the copy destination folder, the following dialog is displayed without starting the copy.

If touch the [OK] button, overwrites the file.

If touch the [Cancel] button, cancels to copy.

This folder already contains the file AAM00001.G1A. Do you want to replace the existing file
Modified: 09-03-09 13:27 with this one? Modified: 09-03-09 13:23
0 K Cance I

Step 6. When the copy is completed, the dialog box of completion is displayed. To close the dialog box, touch the [OK] button.

Completed the process. Succeeded: 1 Failed: 0
0 K

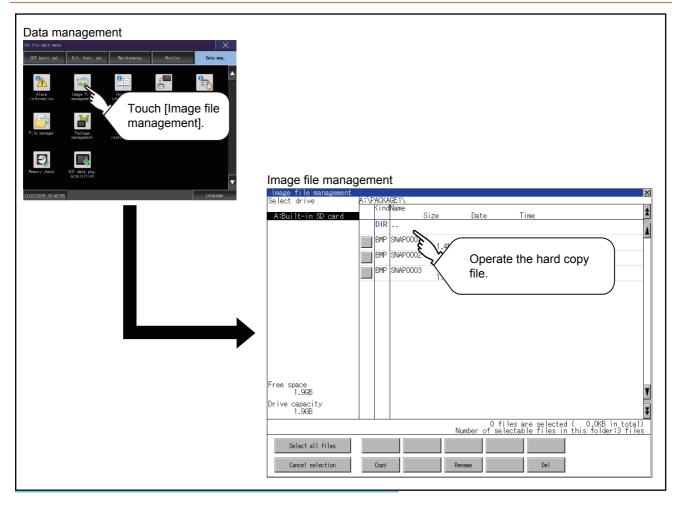
6.3.1 Function of image file management

Deletes, copies, moves, and rename the file created by the hard copy function and creates a new folder for such a file. For details of the hard copy function, refer to the following.

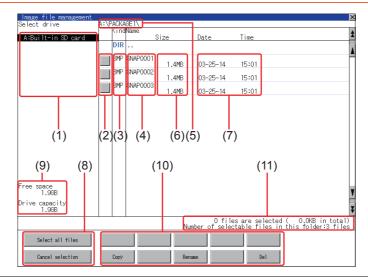
	ST Designers (GOT2000) Screen Design Manual			
Function	Description	Reference		
Information display of files and folders	Displays the kind, name, data size, creation date and time of the file or folder.	6.3.3 Display example of image file management6.3.4 Operation of image file management		
Deletion	Deletes the file.	2 . Deletion operation		
Сору	Copies the file.	3 . Copy operation		
Move	Moves the file.	■ 7. Move operation		
Rename	Renames the file.	■ 4. Rename operation		
Create Folder	New folder is created.	9 . Folder create operation		

	GT Designer3	(GOT2000)	Screen Design Manual
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6.3.2 Display operation of image file management



6.3.3 Display example of image file management



Number	Item	Description
(1)	Select drive	The drive which displays file or folder can be selected. When an SD card or USB memory is not installed, the following drives are not displayed. • SD card: [A: Built-in SD card] • USB memory: [B: USB Drive], [E: USB Drive], [F: USB Drive], and [G: USB Drive]
(2)	Check box	If the check box is selected, up to 512 files can be selected.
(3)	Kind	Indicates whether the displayed name is file or folder. Displays the extension for a file and "DIR" for a folder.
(4)	Name	Displays the file name or folder name. For the long file/folder name, entire part may not be displayed. Confirm the non-displayed part with the [Copy] button, etc. ■■ ■ 3. Copy operation After confirmation, touch the [Cancel] button to cancel the operation.
(5)	Path name	Displays the path name of drive /folder which is currently displayed.
(6)	Size	Displays the size of the file displayed in Name.
(7)	Date and time	Displays the creation date and time of each file.
(8)	The size of drive	Displays the size in use and the entire size of the drive which is selected by drive selection.
(9)	Select all files/Cancel selection	Multiple files can be selected or canceled at once. Touch the [Select all files] button to select all files. If the number of the displayed files exceeds 513, the first 512 files are selected.
(10)	Operation switch	Execution switch of each function.
(11)	Number of folders and files	Displays the total number of the displayed files and folders.

POINT

Display of creation date and time

The creation date and time display is not updated even if a file is created or updated while the image file management screen is displayed. To display the updated creation date and time, close the screen currently displayed (by moving to the upper hierarchy folder, etc.) and display the screen again.

6.3.4 Operation of image file management

■1. Display operation of image file management

Step 1. If touch a drive of [Select drive], the information of the touched drive is displayed.

Image file management					×
Select drive	A:\PACK	AGE 1			
A-0.114 (- 00)	Kin	Name	ize	Date	Time
A:Built-in SD card	DIR		IZe	Date	Time
	BMP		1.4MB	03-25-14	15:01
	BMP BMP	SNAP0002	1.4MB	03-25-14	15:01
	BMP	SNAP0003	1.4MB	03-25-14	15:01
Free space 1.998 Drive capacity 1.998				0 fi la	ts ance selected (0008 in tota) table files in this folder≎ files
		1	Nu	nber of selec	table files in this folder:3 files
Select all files					
Cancel selection	Copy		Ren	3009	Del

- Step 2. If touch a folder name, the information of the touched folder is displayed.
- Step 3. If touch a folder of ". .", the information of the folder of the one upper hierarchy is displayed.
- Step 4. If touch the **I** button of the scrollbar, the screen scrolls up/down by one line.
- Step 5. Touch the check box to select the file.
- Step 6. For the operations of the delete, copy, and rename, refer to the following.
 - Delete
 - 2. Deletion operation
 - Copy
 - ➡ 3. Copy operation
 - Rename
 - ➡ ■4. Rename operation
- Step 7. If touch the [×] button, the screen is closed.

■2. Deletion operation

Deletes the selected file.

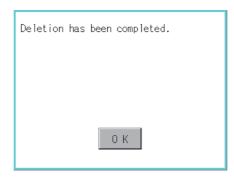
Step 1. Touch the check box of the file to delete to select the file.

Image file management Select drive	A:\PACK	10.951			×
		Name			Time
A:Built-in SD card	DIR		Size	Date	Time
		SNAP0001			A
	M BMP	SNAP0002	1.4MB	03-25-14	15:01
			1.4MB	03-25-14	15:01
	EMP	SNAP0003	1.4MB	03-25-14	15:01
	BMP	SNAP0004	1.4MB	03-25-14	15:36
	BMP	SNAP0005	1.4MB	03-25-14	15:36
Free space 1.968					
Drive capacity 1.968					Ŧ
			Nu	1 file mber of selec	es are selected (1.4MB in total) ctable files in this folder:5 files
Select all files					
Cancel selection	Сору		Rer	iane	Del

Step 2.If touch the [Del] button, the dialog box mentioned below is displayed.If touch the [OK] button, the file is deleted.If touch the [Cancel] button, the deletion is canceled.

The file SNAPOOO1.BMP will be deleted. Do you want to proc	xeed?
0 К	Cance 1

Step 3. When the deletion is completed, the completion dialog box is displayed. To close the dialog box, touch the [OK] button.



■3. Copy operation

Copies the selected file.

Step 1. Touch the check box of the file to copy to select the file.

Data control:Data cont Select drive	rol:Har A:\PRO	d copy info)		ž
A : Built-in CF card	Ki	ndName	Size	Date	Time
A + burnt-mildi card	DI	R	0126	Date	1105
	V BY	IP SNAP0001	469.8KB	09-02-09	13:00
	B)	IP SNAP0002	469.8KB	09-02-09	13:03
E : USB drive	B*	IP SNAP0003	469.8KB	09-02-09	13:07
2 . 000 0.110	BP	IP SNAP0004	469.8KB	09-02-09	13:09
	B*	IP SNAP0005	469.8KB	09-02-09	13:12
Free space					
952.8MB Drive capacity					-
955.0MB					3
			Nur	1 file nber of selec	es are selected (469.8KB in total) stable files in this folder:4 files
Select all files					
Cancel selection	Cos		Rena	~	Del
cancer selection	L00	//	Nena	100	Dei

- Step 2. If touch the [Copy] button, the message [Please select a destination.] is displayed in the left bottom of the screen.
- Step 3. If the copy destination folder is touched, the screen display is changed to the folder of copy destination. At this time, it cannot be copied into the same folder where the file exists. Select other folders.
- Step 4. If touch the [Exec] button, the dialog box mentioned below is displayed.

The target file to copy SNAP0001.BMP Do you want to copy the file?
0 K Cancel

Step 5. Touch the [OK] button.

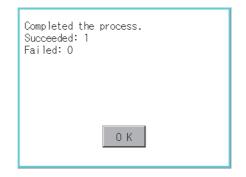
If there is a file of the same name in the copy destination folder, the following dialog is displayed without starting the copy.

If touch the [OK] button, overwrites the file.

If touch the [Cancel] button, cancels to copy.

This folder already contains the file SNAPOOO1.BMP. Do you want to replace the existing file
Modified: 08-01-08 00:38 with this one? Modified: 09-02-09 13:00
0 K Cancel

Step 6. When the copy is completed, the dialog box of completion is displayed. To close the dialog box, touch the [OK] button.



■4. Rename operation

Rename the selected file.

Step 1. Select the check box of the file to be renamed by touching.

Data control:Data cont Select drive	roli	iar d ROJE	copy info)			×
A : Built-in CF card		Kind	Name	Size	Date	Time	1
A Pourie in or card		DIR		0120	baco	1102	1
	\checkmark	BMP	SNAP0001	469.8KB	09-02-09	13:00	f
		BMP	SNAP0002	469.8KB	09-02-09	13:03	1
E : USB drive		BMP	SNAP0003	469.8KB	09-02-09	13:07	1
E - USD drive		BMP	SNAP0004	469.8KB	09-02-09	13:09	1
				403.0ND	09-02-09	10.00	
							l
							l
							l
							l
Free space 952.8MB							1
Drive capacity 955.0MB							
				Nur	1 file ber of selec	s are selected (469.8KB in total table files in this folder:4 file:	ĵ s
Select all files							
Cancel selection		Сору		Rena	ne	Del	

Step 2. Touch the [Rename] button, and then the screen shown below is displayed. Input a new file name. By touching the following button, input text type is changed.

[A-Z]: Alphabet capital

[0-9]: Numeric/Symbol

Path Name A:\PROJECT1 File Name										
A-7	0-9						16000	DEL ACI	DEL	
Q	Ī	E	R	T	Y	J	Ι	0	P	
Å	S		F	G	H	J	K	L		
2	X	C	Ţ	B	N	ľ		Ent	ter	

Step 3. Touch the [Enter] button, and then the dialog box shown below is displayed.

The file name will be changed. Current name: SNAPO001.BMP New name: IMG0001.BMP Do you want to proceed?
0 K Cancel

- *Step 4.* Touch the [OK] button, and then renaming the file is started.
- Step 5.When renaming the file is completed, a completion dialog box is displayed.To close the dialog box, touch the [OK] button.

Process completed.					
	0 K				

POINT

Before using recipe information

For writing/reading into/from a controller with this function or editing of recipe files on the personal computer, refer to the following.

Specifications and operating procedure are described.

GT Designer3 (GOT2000) Screen Design Manual

6.4.1 Function of recipe information

The recipe file used in the recipe function can be copied, deleted, and output in a file. In addition, it is possible to writing/reading into/from a controller by using this function, without creating the screen to operate the recipe. (Recipe setting of GT Designer3 is required.)

■1. Recipe information

The following table shows the functions that can be operated on the recipe information screen.

Function	Description	Reference		
Information display of files and folders	Displays name, data size, creation date and time of file or folder.	6.4.3 Example of advanced recipe information display,6.4.4 Recipe information operation		
$G2P \rightarrow CSV \text{ conversion}$	Converts a G2P file of a recipe file to a CSV file.	$\blacksquare 2. \text{ G2P} \rightarrow \text{CSV conversion operation}, \\ \text{G2P} \rightarrow \text{TXT conversion operation}$		
$G2P \rightarrow TXT \text{ conversion}$	Converts a G2P file of a recipe file to a Unicode text file.	$\blacksquare 2. \text{ G2P} \rightarrow \text{CSV conversion operation}, \\ \text{G2P} \rightarrow \text{TXT conversion operation}$		
$CSV/TXT \rightarrow G2P \text{ conversion}$	Converts a CSV file or TXT file to a G2P file of a recipe file.	$\blacksquare 3. \text{ CSV/TXT} \rightarrow \text{G2P conversion} \\ \text{operation} \\$		
Operation	Displays the recipe operation window.	■ 2. Recipe operation window		
Сору	Copies the file.	■ 6. Copy operation		
Move	Moves the file.	■ 7. Move operation		
Rename	Renames the file.	■ 8. Rename operation		
Create Folder	Creates a new folder.	■ 9. Folder create operation		
Delete	Deletes a file or folder.	5 . Delete operation		

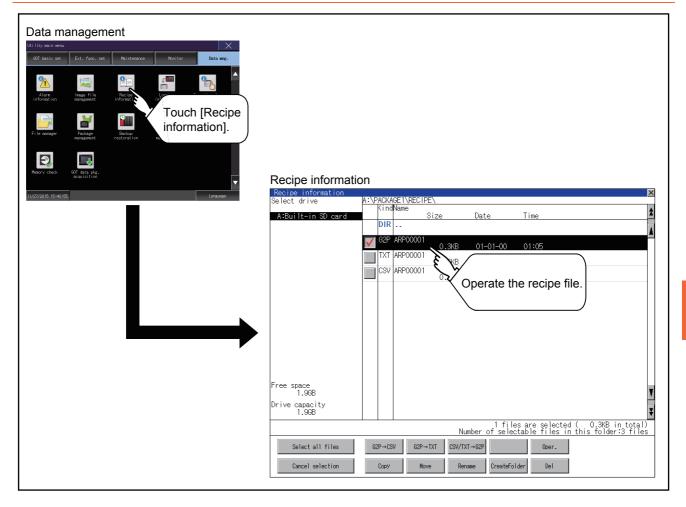
6

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■2. Recipe operation window

This window is a dedicated window for operating recipe files. The following table shows the functions of the recipe operation window.

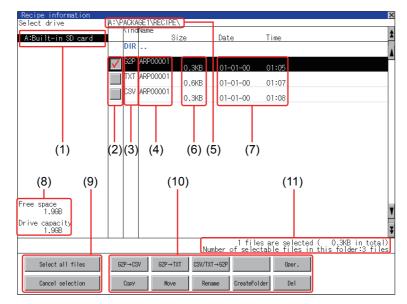
Function		Description	Reference		
	Displays the recipe	operation screen.	6.4.4 Recipe information operation■ 4. Recipe file manipulation(1) Recipe operation		
Recipe operation	Load recipe	Writes device values of a selected record into controllers.	 6.4.4 Recipe information operation 4. Recipe file manipulation (1) Recipe operation (a) Write recipe operation 		
	Save recipe	Reads the device values from controllers into a selected record.	 6.4.4 Recipe information operation 4. Recipe file manipulation (1) Recipe operation (b) Read recipe operation 		
	Verify recipe	Verifies the device values of a selected record against those of controllers.	 6.4.4 Recipe information operation 4. Recipe file manipulation (1) Recipe operation (c) Verify recipe operation 		
	Update recipe	Reads the selected recipe file and saves the data as a newly-named record.	 6.4.4 Recipe information operation 4. Recipe file manipulation (1) Recipe operation (d) Update recipe operation 		
Сору	Copies a recipe file		 6.4.4 Recipe information operation ■ 4. Recipe file manipulation (2) Copy operation 		
New folder	Creates a new fold	er.	 6.4.4 Recipe information operation 4. Recipe file manipulation (3) Create folder operation 		
New recipe	Creates a new reci	pe file.	 6.4.4 Recipe information operation 4. Recipe file manipulation (4) Create recipe operation 		
Convert		tipe file to a CSV file or Unicode text file. file or Unicode text file to a G2P recipe file.	 6.4.4 Recipe information operation 4. Recipe file manipulation (5) Convert operation 		
Rename	Renames the recip	e file.	 6.4.4 Recipe information operation 4. Recipe file manipulation (6) Rename operation 		
Delete	Deletes a recipe file	e.	 6.4.4 Recipe information operation ■ 4. Recipe file manipulation (7) Delete operation 		



6

DATA CONTROL

6.4.3 Example of advanced recipe information display



Number	Item	Description			
(1)	Select drive	The target drive can be selected. (Even if an SD card is not installed, this message appears.)			
(2)	Check box	If the check box is selected, up to 512 files can be selected.			
(3)	Kind	Indicates whether the displayed name is file or folder. Displays the extension for a file and "DIR" for a folder.			
(4)	Name	Displays the file name or folder name. For the long file/folder name, entire part may not be displayed. Confirm the nondisplayed part with the [Rename] button, etc. Image: Imag			
(5)	Path name	Displays the path name of drive /folder which is currently displayed.			
(6)	Size	Displays the size of the file displayed in Name.			
(7)	Date and time	Displays the creation date and time of each file.			
(8)	The size of drive	Displays the size in use and the entire size of the drive which is selected by drive selection.			
(9)	Select all files/Cancel selection	Multiple files can be selected or canceled at once. Touch the [Select all files] button to select all files. If the number of the displayed files exceeds 513, the first 512 files are selected.			
(10)	Operation switch	Execution switch of each function.			
(11)	Number of folders and files	Displays the total number of the displayed files and folders.			

POINT

About the displayed file

The files other than that for recipe are not displayed on the recipe information screen.

6.4.4 Recipe information operation

■1. Display operation of recipe information

Step 1. If touch a drive of [Select drive], the information of the touched drive is displayed.

Recipe information						×
Select drive	A:\PAC	KAGE1\RECIPE	E\			
A:Built-in SD card	Ki	ndName S	ize	Date	Time	\$
	DI	R				
	V 62	P ARPOODD1	0.3KB	01-01-00	01:05	4
	TX	T ARP00001	0.6KB	01-01-00	01:07	
	CS CS	V ARP00001	0.3KB	01-01-00	01:08	
Free space 1.9GB						
Drive capacity						8
1.96B						¥
			Nu	1 file mber of sele	es are selected stable files in	(0.3KB in total) this folder:3 files
Select all files	62P→	CSV G2P→1			Oper.	
Cancel selection	Cor	9 Move	e Ren	ame CreateFo	1der De1	

- Step 2. If touch a folder name, the information of the touched folder is displayed.
- Step 3. If touch a folder of "...", the information of the folder of the one upper hierarchy is displayed.
- Step 4.If touch the ▲ ▼ button of the scrollbar, the screen scrolls up/down by one line.If touch the ▲ ▼ button, the screen scrolls up/down by one screen.
- Step 5. Touch the check box to select the file.
- Step 6. For operation of operating switches, refer to the following.
 - * G2P \rightarrow CSV, G2P \rightarrow TXT

■ 2. G2P \rightarrow CSV conversion operation, G2P \rightarrow TXT conversion operation

- * CSV/TXT \rightarrow G2P conversion
 - 3. CSV/TXT \rightarrow G2P conversion operation
- Operation

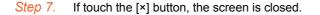
■ **4**. Recipe file manipulation

- 6. Copy operation
- Move

• Copy

- ➡ 7. Move operation
- Rename
 - 8. Rename operation
- Create Folder
 - 9. Folder create operation
- Delete

➡ ■ 5. Delete operation



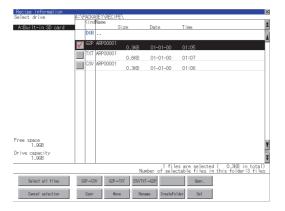
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2. G2P \rightarrow CSV conversion operation, G2P \rightarrow TXT conversion operation

A recipe file (G2P file) is converted to a CSV file or Unicode text file that can be displayed/edited on a personal computer.

The conversion source file remains intact.

Step 1. Touch the check box of a G2P file which is to be converted to a CSV file or Unicode text file to select the file.



Step 2. Touch the following button in accordance with destination file type.

- · CSV file:
 - $[G2P \rightarrow CSV]$ button
- Unicode text file:

 $[\text{G2L}\rightarrow\text{TXT}]$ button

Step 3. Select the target folder.

(Selecting a folder is not needed for outputting directly below the drive.)

lect drive	8.1	PROJE	Name				
A : Built-in CF ca	rd	Fine	svame :	Size	Date	Time	
		DIR					
	V	G1P	ARP00001	0.9KB	07-04-08	14:21	J
		CSV	ARP00001	0.7KB	07-04-08	14:32	
E : USB drive		TXT	ARP00001	1.4KB	09-03-09	09:23	
ee space 481.6MB							
ive capacity 483.0MB							
	·			Nu	1 file mber of selec	es are selected (stable files in this	0.9KB in total) folder:3 files
ease select stination		Exec.	Cano				

Step 4. If touch the [Exec] button, the dialog box mentioned below is displayed. Touch the [OK] button.

(While executing, "Processing..." message appears on the screen.) (Example: Dialog box if the [G2P \rightarrow CSV] button is touched)

File conversion fro Source file: ARP(Change to: ARP(Change file format	00001.G1P 00001.CSV
0 K	Cance 1

6 - 22

Step 5. When the file, whose name is the same, exists in the destination folder, the dialog box showed below appears without starting the conversion.
 To overwrite the file, touch the [OK] button.
 To cancel the conversion, touch the [Cancel] button.

	folder already 001.CSV.	contains the file
1		ice the existing
Modi	fied: 07-04-08 this one?	14:32
	fied: 07-04-08	14:21
	0 K	Cancel

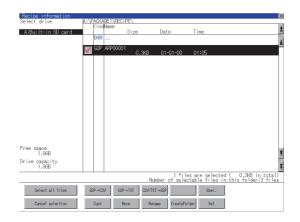
Step 6. The message of completion is displayed in dialog box when conversion is completed. To close the dialog box, touch the [OK] button.

Process completed.	
0 K	

3. CSV/TXT \rightarrow G2P conversion operation

A CSV file or Unicode text file is converted to a recipe file (G2P file). The conversion source file remains intact.

Step 1. To select the file, touch the check box of a CSV file or Unicode text file to be converted to a G2P file.



Step 2. Touch the [CSV/TXT \rightarrow G2P] button to display [Please select destination] at the lower left corner of the screen.

Data control:Data contr	ol:/	١dvar	iced Rec	ipe informa	ition		X
Select drive	A:VF	ROJE	CT1\ Name				
A : Built-in OF card		Princ	ivanie	Size	Date	Time	1
n - barre m a cara		DIR					
		70.07	1000000				_ A
	\checkmark		ARP0000	0.848	05-31-10	16:54	
				010100		10 01	
Free space 474.6MB							
							M
Drive capacity 488.0MB							Ţ
400.0mb						1	- 10
				1	1 tile lumber of selec	s are selected (0.8KB in tota table files in this folder:1 fil	I) es
Please select destination		Exec.	Ca	ncel			

- Step 3. Select the target folder.
 - (Selecting a folder is not needed for outputting directly below the drive.)
- Step 4. If touch the [Exec] button, the dialog box mentioned below is displayed. Touch the [OK] button.
 (While executing, "Processing..." message appears on the screen.)

Source file: Convert to:	
0 K	Cancel

Step 5. When the file, whose name is the same, exists in the destination folder, the dialog box showed below appears without starting the conversion.
 To overwrite the file, touch the [OK] button.
 To cancel the conversion, touch the [Cancel] button.

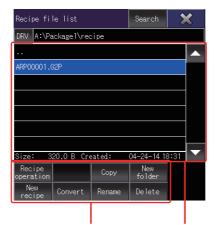
This folder already contains the file ARP00001.G1P. Do you want to replace the existing
file Modified: 05-31-10 16:54
with this one? Modified: 05-31-10 16:54
0 K Gancel
on

Step 6. The message of completion is displayed in dialog box when conversion is completed. To close the dialog box, touch the [OK] button.

4. Recipe file manipulation

Select a recipe file on the recipe file list screen to perform various operations.

Step 1. Touch [DRV] on the recipe file list screen to display the drive selection screen. Select a drive.



Operation switch File display area

- Step 2. Touch a recipe file in the file display area to select the recipe file.
- Step 3. To return to the parent folder and display its information, touch a [. .] folder.
- *Step 4.* To scroll the file display area up or down one row, touch the **Step 4** button of the scroll bar.
- Step 5. To search for a file by keyword or file type, touch the [Search] button to display the search screen.
- Step 6. For the operation of the operation switches, refer to the following.
 - Recipe operation
 - ➡ (1) Recipe operation
 - Copy
 - ➡ (2) Copy operation
 - New folder
 - ➡ (3) Create folder operation
 - New recipe
 - ➡ (4) Create recipe operation
 - Convert
 - (5) Convert operation
 - Rename
 - (6) Rename operation
 - Delete
 - ➡ (7) Delete operation
- Step 7. Touch the [×] button to close the window.

(1) Recipe operation

To display the recipe operation screen, select a recipe file (G2P file) and touch the [Recipe operation] button.

Step 1. To scroll the file display area up or down one row, touch the \blacktriangle button of the scroll bar.



- Step 2. To search for a file by record number or record name, touch the [Search] button to display the search screen.
- Step 3. Select a record name in the file display area and touch an operation switch to perform the corresponding operation as shown below.

For the operation of the operation switches, refer to the following.

- Load recipe
 - (a) Write recipe operation
- Save recipe
 - (b) Read recipe operation
- Verify recipe

(c) Verify recipe operation

- Update recipe
 - (d) Update recipe operation

Step 4. Touch the [x] button to return to the recipe file list screen.

(a) Write recipe operation

Step 1. Select a record name in the file display area.

Recipe ope	eration		Search	5
No. Reco	ord name			
0001				
Attrib: V	Upda	ted: 01	-03-00 03	:53
Load recipe	Save recipe	Verify recipe	Update recipe	

Step 2. Touch the [Load recipe] button on the recipe operation screen to display the dialog shown below.



Step 3. To write device values of the selected record into controllers, touch the [OK] button. To cancel the writing of the values, touch the [Cancel] button.

(b) Read recipe operation

Step 1. Touch the [Save recipe] button on the recipe operation screen to display the record name screen.
 Touch the record name input area to display an input key window.
 Enter the name of a record to be created.

To change the character type, touch any of the following buttons.

[A-Z]: Uppercase alphabet

[a-z]: Lowercase alphabet

[@]: Symbols

[0-9]: Numeric characters, A to F



- Step 2. Touch the [Enter] button to close the input key window.
- Step 3. Touch the [OK] button on the record name screen to display the dialog shown below.

Check
Recipe will be read from the device to the recipe file. Do you want to proceed?
0K Cancel

Step 4. To read the device values from controllers into the selected record, touch the [OK] button. To cancel the reading of the values, touch the [Cancel] button.

(c) Verify recipe operation

Step 1. Select a record name in the file display area.



Step 2. Touch the [Verify recipe] button on the recipe operation screen to display the dialog shown below. To verify the recipe file in the GOT against the one in the device, touch the [OK] button. To cancel the verification, touch the [Cancel] button.

Check
Recipe will be verified between the device and the recipe file. Do you want to proceed?
OK Cance I

Step 3. When the verification is completes and the recipe file of the GOT and the one of the device match, the dialog shown below appears.

When the recipe file of the GOT and the one of the device do not match, the dialog indicating [Verification NG.] appears.

Processing results
Verification OK.
ОК
- OK

Step 4. Touch the [OK] button to close the dialog.

(d) Update recipe operation

Step 1. Select a record name in the file display area.

Recipe operation	Search		5
No. Record name			
0001			
			▼
Attrib: V Updated: 01 Load Save Verify recipe recipe recipe	-03-00 03 Update recipe	:53	

Step 2. Touch the [Update recipe] button on the recipe operation screen to display the record information screen.



- Step 3. Enter a record number in the record number input area. Touch the record number input area to display the input key window.
- *Step 4.* Touch the record name input area to display the input key window. Enter the name of a folder to be created.

To change the character type, touch any of the following buttons.

- [A-Z]: Uppercase alphabet
- [a-z]: Lowercase alphabet
- [@]: Symbols

[0-9]: Numeric characters, A to F

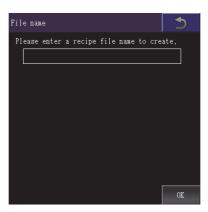
- Step 5. Touch the [Enter] button to close the input key window.
- Step 6. Touch the [OK] button on the record information screen to display the recipe file storage destination screen.

To return to the parent folder and display its information, touch a [. .] folder. To create a new folder, touch the [New folder] button to display the folder name screen. New folder

(3) Create folder operation

Recipe file storage dest.		5
DRV A:\Package1\recipe		
•		
		-
New folder	0	K

Step 7. Touch the [OK] button on the recipe file storage destination screen to display the file name screen. Enter a recipe file name in the input area.



Step 8. Touch the recipe file name input area to display the input key window. Input a recipe file name.

To change the character type, touch any of the following buttons.

[A-Z]: Uppercase alphabet

[a-z]: Lowercase alphabet

- [@]: Symbols
- [0-9]: Numeric characters, A to F
- Step 9. Touch the [Enter] button to close the input key window.
- Step 10. Touch the [OK] button on the file name screen to display the dialog shown below.To read the device values from controllers into the selected record, touch the [OK] button.To cancel the reading of the values, touch the [Cancel] button.

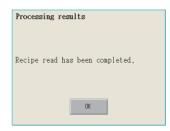
Check
Recipe will be read from the device to create a new recipe file. Do you want to proceed?
OK Cancel

Step 11. If the recipe read destination folder has a file of the same name, the screen shown below appears without reading device values of controllers.

To overwrite the file of the same name, touch the [OK] button. To cancel the overwriting, touch the [Cancel] button.

Processing results
This folder already contains a file named as follows. ARP00001.62P Do you want to replace the existing fi le?
OK Cancel

Step 12. When the reading of device values from controllers completes, the completion dialog appears. Touch the [OK] button to close the dialog.



(2) Copy operation

A recipe file is copied.

Step 1. Select a file to copy on the recipe file list screen.

Recipe file list Search 🔰					\$
DRV A:\Pa	ackage1\red	cipe			
ARP00001.0	32P				
ARP00002.0	32P				
Size: 320.0 B Created: 04-24-1418:58					
Recipe operation		Сору	New folder		
New recipe	Convert	Rename	Delete		

Step 2. Touch the [Copy] button to display the copy destination folder screen. Select a copy destination folder.

To return to the parent folder and display its information, touch a [. .] folder. To create a new folder, touch the [New folder] button to display the folder name screen. New folder

(3) Create folder operation



Step 3. Touch the [OK] button on the copy destination folder screen to display the dialog shown below. Touch the [OK] button.

(The message "Processing" is displayed during processing.)

Check
Recipe file will be copied. Do you want to proceed?
CK Cancel

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Step 4. If the copy destination folder has a file of the same name, the screen shown below appears without starting the copy.

To overwrite the file of the same name, touch the [OK] button. To cancel the copy, touch the [Cancel] button.

Check This folder already contains a file named as follows. ARP00001.62P Do you want to replace the existing file Updated: 04/24/2014 19:16 with the following file? Updated: 04/24/2014 19:16
OK Cancel

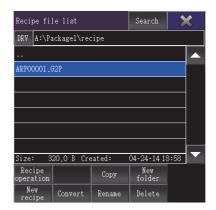
Step 5. When the copy completes, the completion dialog appears. Touch the [OK] button to close the dialog.

Processing results
File copy has been completed. ARPO0001.62P
ОК

(3) Create folder operation

A new folder is created.

Step 1. Touch the [New folder] button on the recipe file list screen.

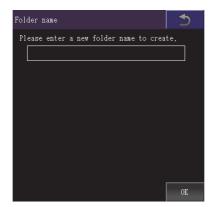


Step 2. In the folder name screen, create a new folder.

Touch the new folder name input area to display the input key window. Enter the name of a folder to be created.

To change the character type, touch any of the following buttons.

- [A-Z]: Uppercase alphabet
- [a-z]: Lowercase alphabet
- [@]: Symbols
- [0-9]: Numeric characters, A to F



- Step 3. Touch the [Enter] button to close the input key window.
- Step 4. Touch the [OK] button on the folder name screen to display the dialog shown below and create a folder. Touch the [OK] button to close the dialog.

Processing results
Folder creation has been completed. AAA
ОК

(4) Create recipe operation

A new recipe file is created.

Step 1. Touch the [New recipe] button on the recipe file list screen.

Recipe file list			Search	>	〈	
DRV A:\Package1\recipe						
ARPOOO	01.0					
Size:	Size: 320.0 B Created: 04-24-1418:58					
Recip operat:			Сору	New folder		
New recip	e	Convert	Rename	Delete		

Step 2. The new recipe screen is displayed.

New	recipe	Search		5
No.	Recipe setting name			
0000:	l Recipel			
			Gene fi	

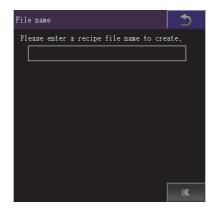
Step 3. Touch the [Generate file] button on the new recipe screen to display the recipe file storage destination screen.

To return to the parent folder and display its information, touch a [. .] folder. To create a new folder, touch the [New folder] button to display the folder name screen. New folder

(3) Create folder operation

Recipe file storage dest.		5
DRV A:\Package1\recipe		
New		
folder	0	K

Step 4. Touch the [OK] button on the recipe file storage destination screen to display the file name screen.



Step 5. Touch the recipe file name input area to display the input key window. Input a recipe file name.

To change the character type, touch any of the following buttons.

[A-Z]: Uppercase alphabet

[a-z]: Lowercase alphabet

[@]: Symbols

[0-9]: Numeric characters, A to F

- Step 6. Touch the [Enter] button to close the input key window.
- Step 7. Touch the [OK] button on the file name screen to display the dialog shown below and create a recipe file.

Processing results
Recipe has been read and a new recipe file generation has been completed.
ARP00002.G2P
OK

Step 8. If the file storage destination folder has a file of the same name, the screen shown below appears without creating a recipe file.

To overwrite the file of the same name, touch the [OK] button. To cancel the creation of a recipe file, touch the [Cancel] button.

Processing results
This folder already contains a file named as follows. ARP00002,62P Do you want to replace the existing fi le?
OK Cancel

Step 9.Touch the [OK] button to display the recipe operation screen shown below.Touch an operation switch to perform the corresponding operation as shown below.For the operation of the operation switches, refer to the following.Save recipe

(1) Recipe operation (b) Read recipe operationUpdate recipe

(1) Recipe operation (d) Update recipe operation

Recipe op	eration		Search		b
No. Reco	ord name				
0001 REC	IPE1				
					-
Attrib: V	Upda	ted: 01	-03-00 03	:53	
Load recipe	Save recipe	Verify recipe	Update recipe		
recipe	recipe	recipe	recipe		

Step 10. Touch the [x] button to return to the new recipe screen.

(5) Convert operation

A G2P recipe file is converted to a CSV file or Unicode text file. Or, a CSV file or Unicode text file is converted to a G2P recipe file. The conversion source file remains intact.

Step 1. Select a file to be converted on the recipe file list screen.

The screen displayed when the [Convert] button on the recipe file list screen is touched differs depending on the file to be converted.

- · For G2P recipe files:
 - The conversion file type screen is displayed.
- For CSV files or Unicode text files:

The converted file storage destination screen is displayed.

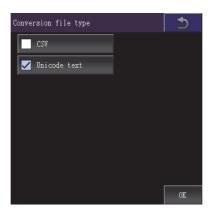
Recipe fil	le list	Search	>	¢	
DRV A:\Pa	ackage1\red	cipe			
ARP00001.0	32P				
Size: 3	20.0 B Cre	eated:	04-24-14 18	3:58	
Recipe operation		Сору	New folder		
New recipe	Convert	Rename	Delete		

Step 2. For converting a G2P recipe file, touch the [Convert] button on the recipe file list screen to display the conversion file type screen.

Select the file format of a file to be created after the conversion.

- [CSV] Converts the file to a CSV file.
- [Unicode text]

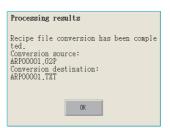
Converts the file to a Unicode text file.



- Step 3. Touch the [OK] button on the conversion file type screen or the [Convert] button on the recipe file list screen to display the converted file storage destination screen.
 To return to the parent folder and display its information, touch a [. .] folder.
 To create a new folder, touch the [New folder] button to display the folder name screen.
 New folder
 - (3) Create folder operation

Converted file storage dest.				
DRV	A:\Packagel\recipe			
Ne fol	w der	01	K	

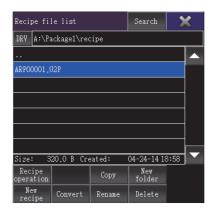
Step 4. Touch the [OK] button on the converted file storage destination screen to display the dialog shown below. Touch the [OK] button to close the dialog.



(6) Rename operation

A recipe file is renamed.

Step 1. Select a file to rename on the recipe file list screen.



Step 2. Touch the [Rename] button on the recipe file list screen to display the file name screen. Enter the file name to be renamed.



Step 3. Touch the recipe file name input area to display the input key window. Input a recipe file name.

To change the character type, touch any of the following buttons.

[A-Z]: Uppercase alphabet

[a-z]: Lowercase alphabet

[@]: Symbols

[0-9]: Numeric characters, A to F

Step 4. Touch the [OK] button on the file name screen to display the dialog shown below. Touch the [OK] button to close the dialog.

Processing results
Recipe file renaming has been complete d. Before renaming: ARPOOOL.G2P After renaming: LINE-A_RECIPE.G2P
OK

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(7) Delete operation

A recipe file is deleted.

Step 1. Touch a file to delete on the recipe file list screen.

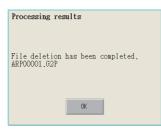
Recipe f	ile list	Search	>	¢	
DRV A:\\	Package1\re	cipe			
ARP00001	.G2P				
Size:	320.0 B Cr	eated:	04-24-14 1	8:58	
Recipe operation	1	Сору	New folder		
New recipe	Convert	Rename	Delete		

Step 2. Touch the [Delete] button on the recipe file list screen to display the dialog shown below. To delete the file, touch the [OK] button.

To cancel the deletion, touch the [Cancel] button.

Check
Recipe file will be deleted.
Do you want to proceed?
OK Cancel

Step 3. When the deletion completes, the completion dialog appears. Touch the [OK] button to close the dialog.



■ 5. Delete operation

Folders and files to be used on recipe are deleted.

Step 1. Touch the folder to delete or the check box of the file to delete to select the file.

A: Created date 05-31-10 16:14 The above data will be restored. After completion of restoration, GOT will be rebooted.
Do you want to execute restoration? will be rebooted.
0 K Cance I

Step 2. If touch the [Del] button, the dialog box mentioned below is displayed.
If touch the [OK] button, the file/folder is deleted.
(While executing, "Processing..." message appears on the screen.)
If touch the [Cancel] button, the deletion is canceled.

The file ARP00001.G1P will be deleted. Do you want to proc	ceed?
0 K	Cancel

Step 3. When the deletion is completed, the completion dialog box is displayed. To close the dialog box, touch the [OK] button.



Step 4. When it cannot be deleted, the dialog box showed below appears. (Only when deleting a folder is executed.)

Verify that there is no file in the folder and execute the delete operation again.

6.4.5 Precautions

The folder cannot be deleted because files or folders exist. Hidden files may exist in the GOT.
0 К

■6. Copy operation

Folders to be used in recipe are copied.

Step 1. Touch the check box of the file to copy to select the file.

Select drive	A:\PACKA Kind	GE1\RECI Nome	PE\				
A:Built-in SD card			Size	Date	Time		1
	DIR						Ĩ
	V G2P	ARP00001	0.3KB	01-01-00	01:05		ľ
			0.000	01 01 00	01100		1
Free space							l,
1.968							1
Drive capacity 1.968							
				1 file	s are selected	l (0.3KB in total ithis folder:3 file	D
			N	lumber of selec	table files in	this folder:3 file	ŝ
Select all files	G2P→CS	V 62P	→TXT CSV/	TXT→G2P	Oper.		
Cancel selection	Copy		ove R	ename CreateFo	Ider Del		

- Step 2. Touch the [Copy] button.
- Step 3. Select the target folder.

(Selecting a folder is not needed for outputting directly below the drive.) At this time, it cannot be copied into the same folder where the file exists. Select other folders.

Data control:Data cont	rol:/	ıdvar	iced Rec	ipe informat	.ion		×
Select drive	A:\P	ROJE	CT1\ Name				
A : Built-in CF card		N I NO	ivanie	Size	Date	Time	1
A Burne mildi Card		DIR		0120	buco	1110	_
	\checkmark		ARP0000	1 0.9KB	07-04-08	14:21	
				V.3ND	01 04 00	14121	
E : USB drive							
E - USD drive							
ree space							_ L
476.6MB							Ŧ
Drive capacity							
483.0MB							÷
					1 file	s are selected (0.9KB in to table files in this folder:1	otal)
				Nu	mber of selec	table files in this folder:1	files
Please select Hestination		Exec.	Ca	ncel			
ascination							

Step 4. If touch the [Exec] button, the dialog box mentioned below is displayed. Touch the [OK] button.

(While executing, "Processing..." message appears on the screen.)

The target file to copy ARP00001.G1P Do you want to copy the file?	
0 K Cancel	

Step 5. If there is a file of the same name in the copy destination folder, the following dialog is displayed without starting the copy.

If touch the [OK] button, overwrites the file. If touch the [Cancel] button, cancels to copy.

This folder already contains the file ARP00001.G1P. Do you want to replace the existing file
Modified: 07-04-08 14:21 with this one? Modified: 07-04-08 14:08
0 K Cancel

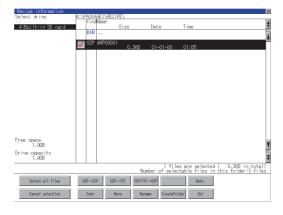
Step 6. When the copy is completed, the dialog box of completion is displayed. To close the dialog box, touch the [OK] button.

Completed the process. Succeeded: 1 Failed: O
0 К

■7. Move operation

Files to be used in recipe are moved.

Step 1. Touch the check box of the file to be moved to select the file.



Step 2. Touch the [Move] button.

Step 3. Select the target folder.

(Selecting a folder is not needed for moving directly below the drive.)

Data control:Data co	ntrol:Ad	vanced Re	cipe informa	ition		
elect drive	A:\PRC	UECT1\ indName				
A : Built-in CF car		Indvame	Size	Date	Time	
A + burnt-mildi car	D	IR	0120	Date	11105	
	V G	1P ARPOOD	0.9KB	07-04-08		
			0.000	01 04 00	147.161	
E : USB drive						
L · GOD Grive						
ree space						
474.7MB						
rive capacity						
483.0MB						
			N	1 file	es are selecte	d (0.9KB in total n this folder:1 file
lease select	1	11		I Sele	Line intest	
estination	Exe	ec.	Cance1			

Step 4. If touch the [Exec] button, the dialog box mentioned below is displayed. Touch the [OK] button.

(While executing, "Processing..." message appears on the screen.)

Target file: ARP00001.G1P Do you want to move th	he file?
0 K	Cance 1

Step 5. When any file with the same name exists in the destination folder, the dialog box shown below appears without starting the movement.

Touching the [OK] button overwrites the file. If touch the [Cancel] button, cancels moving.

This folder already contains the file ARP00001.G1P. Do you want to replace the existing file
Modified: 07-04-08 14:21 with this one?
Modified: 07-04-08 14:08
0 K Cance I

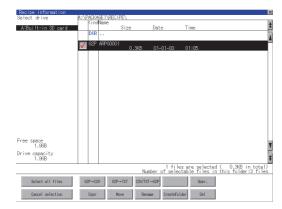
Step 6. When moving is completed, completion dialog box is displayed. To close the dialog box, touch the [OK] button.

Completed the Succeeded: 1 Failed: 0	process.
	0 K

■8. Rename operation

File names to be used in recipe are changed.

Step 1. Select the check box of the file to be renamed by touching.



Step 2. Touch the [Rename] button, and then the screen shown below is displayed. Input the file name to be changed.

By touching the following button, input text type is changed.

[A-Z]: Alphabet capital

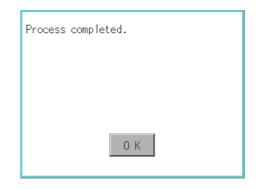
[0-9]: Numeric/Symbol

A:\F	n Nar PROJE e Nar	ECT1							×
A-7	0-9		(L I NE	E-A_F	RECIE	a AC	DFI
Q	₩	E	R	T	Y	U		0	P
A	S	D	F	G	H	J	K	L	
Ζ	X	C	V	B	N	M		Ent	ter

- Step 3. Touch the [Enter] button, and then the dialog box shown below is displayed.
- *Step 4.* Touch the [OK] button, and then renaming the file is started. (While executing, "Processing..." message appears on the screen.)

The file name will Current name: ARP00001.G1P New name: LINE-A_RECIPE.G1P Do you want to proc	
0 K	Cance 1

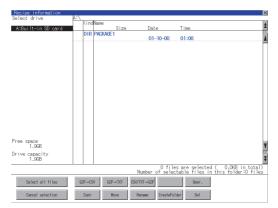
Step 5. When renaming the file is completed, a completion dialog box is displayed. To close the dialog box, touch the [OK] button.



9. Folder create operation

Folders to be used in recipe are created.

Step 1. Touch the [Create Folder] button.



Step 2. The input key window shown below appears, then input the file name to be created. By touching the following button, input text type is changed.

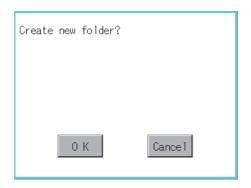
[A-Z]: Alphabet capital

[0-9]: Numeric/Symbol

Path A:\F Fold	PROJE	ECT 1'	\						×
						RE	ECIPE		
<u>A-Z</u>	<u>0-9</u>							AC	DEL
Q	H	Ε	R	Τ	Y	U		0	P
A	S	D	F	G	H	J	K	L	
Ζ	X	C	V	B	N	M		Ent	ter

Step 3. Touch the [Enter] button, and then the dialog box shown below is displayed.

Step 4. If touch the [OK] button, starts creating folder.



Step 5. When creating folder is completed, completion dialog box is displayed. To close the dialog box, touch the [OK] button.

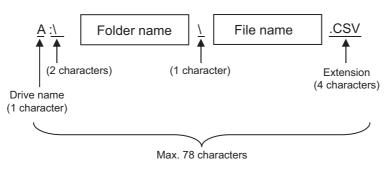
Process completed.	
ОК	

■1. When creating or deleting folders or files

(1) Number of characters set for a folder or file name when creating a folder or file GOT recognizes file location according to path explained below. Specify folder or file name, and total characters of path cannot exceed 78 characters. Users only can rename folder or file name.

(Other than folder/file name is automatically printed.)

Example: CSV file path in a data storage



POINT

If folder is assigned the hierarchy.

The \ mark is displayed between a folder name and folder name, a folder name and file name. The \ mark is also counted as one character.

(2) Character strings that cannot be set to a folder/file

The following character strings cannot be used as a folder name or a file name. Even small characters of those cannot be used.

COM1 to COM9	LPT1 to LPT9	• AUX	• CON
• NUL	• PRN	• CLOCK\$	

In addition, the folder/file name showed below cannot be used.

- · The folder name which begins with G2
- Folder name and file name which begins with . (period)
- Folder name and file name which ends with . (period)
- · Folder name and file name which has only . (one period) or ..(two periods)

(3) For deleting the folder

The folder in which the file exists cannot be deleted.

Delete the folder after having deleted the files.

In addition, on the recipe information screen, the file other than that for recipe is not displayed on the GOT. When the folder, in which there is no file displayed on the screen, cannot be deleted, confirm whether there is other file in the data storage by using a personal computer, etc.

(4) Available character codes

Although characters other than one-byte alphanumeric characters (ASCII) can be used for a file name, the characters become garbled when the file name is displayed on the file list of the utility screen. When operating files on the utility screen, use one-byte alphanumeric characters (ASCII) for file names.

(5) Restrictions on the file display area of the recipe file list screen

- (a) Number of files displayed in the folder display area If the number of the files stored in one folder is 501 or more, the 501st and later files are not displayed.
- (b) Number of characters set for folder and file names at the creation of new folders and files Specify the folder and file names so that the number of the characters for the path is 84 or less. If the number of the characters is 85 or more, the 85th and later characters are not displayed.

2. Precautions for operation

(1) Precautions during folder/file operation (Create/Delete/Copy/File output, etc)

Even if the cover of the SD card interface is opened while the GOT is processing folders and files, the processing continues to be executed. (Example: Even if the cover of the SD card interface is opened while the GOT is creating a folder, the folder is created.)

Therefore, do not pull out the SD card while the "Processing..." message is on the screen after the cover of the SD card interface is opened.

(2) While GOT is accessing to other file (Alarm data, etc)

When folder/file processing for the recipe is executed while the GOT is in access to other file (SD card access LED ON), the GOT executes folder/file processing for the recipe after the processing for other file has completed. Therefore, it may take some time to finish the process of recipe folder/file.(The "Processing..." message is displayed on the screen.)

POINT

Estimation of processing time

The process may take time depending on the setting of advanced recipe file to be operated. (The more number of blocks increases, the longer it takes to process recipe folder/file.)

(Reference value)

Direct connection to QCPU and CPU(device point:32767 points setting, transmission speed: 115200bps)

- · When the block setting number to1: about 17 seconds
- · When the block setting number to 2048: about 4 minutes

(3) For executing the saving/loading of device value with recipe file which has been moved or whose name has been changed

Adjust the [Recipe File] setting of the recipe setting with GT Designer3 or GT Designer2 to the file which has been moved or whose name has been changed.

After the setting has been changed, download the recipe setting to the GOT.

(4) Changing a folder or file name

You cannot change only the case of the characters in a folder or file name. Example)

Before change	•	After change		
JANUARY	>	january		
january	>	JANUARY		
january		January		

To change only the case of the characters in a folder or file name, rename the folder or file to a different name, and then rename the folder or file back to its original name with the case changed.

6.5 Logging Information

6.5.1 Function of logging information

Logging files created with the logging function can be copied, deleted or renamed, etc. Without using a personal computer, you can manage logging files on the GOT. For details of the logging function, refer to the following.

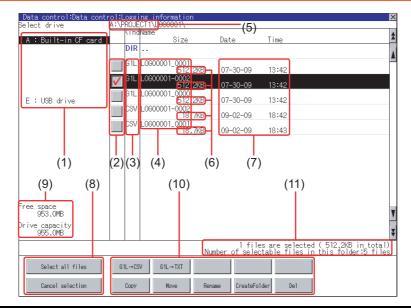
Function	Description	Reference
Information display of files and folders	Displays name, data size, creation date and time of file or folder.	6.5.3 Example of logging information display,6.5.4 Logging information operation
$G2L \rightarrow CSV$ conversion	Converts a G2L file of a logging file to a CSV file.	■ 2. G2L \rightarrow CSV conversion operation, G2L \rightarrow TXT conversion operation
G2L \rightarrow TXT conversion	Converts a G2L file of a logging file to a Unicode text file.	■ 2. G2L \rightarrow CSV conversion operation, G2L \rightarrow TXT conversion operation
Deletion	Deletes a file or folder.	3 . Deletion operation
Сору	Copies the file.	4 . Copy operation
Move	Moves the file.	■ 5. Move operation
Rename	Renames the file.	■ 6. Rename operation
Create Folder	New folder is created.	■ 7. Folder create operation

6

6 - 51

Data management Utility main were/ Of basic set Ext. func. set Mintermore Monitor Data were: Touch [Logging information]. Fits Decry rote: Decry rote: D	
Menory obook 007 data pkg. acutalistion 11/27/2015 1554035 Larguage	Data control:Data control:Logging_information X Select drive A: PROLECTI/LOGODON X A: Built-in CF card Dir GiL LOGODON_0001 GiL LOGODON_0001 GiL LOGODON_0001 GiL LOGODON_0001 GiL LOGODON_0001 GiL LOGODON_0001 GiL LOGODON_0002 GiL LOGODON_0002 GiL LOGODON_0001 GiL LOGODON_0002 CSV LOGODON_0001 CSV LOGODON_0001 LOGODON_0001 LOGODON_0001 LOGODON_0001 LOGODON_0001
	Free space 953.0MB Drive capacity 955.0MB 1 files are selected (512.2KB in total) Number of selectable files in this folder:5 files Select all files GIL+CSV GIL+TXT Cancel selection Copy Move Rename CreateFolder Del

6.5.3 Example of logging information display



Numb er	ltem	Description				
(1)	Select drive	The target drive can be selected. (Even if an SD card is not installed, this message appears.)				
(2)	Check box	If the check box is selected, up to 512 files can be selected.				
(3)	Kind	Indicates whether the displayed name is file or folder. Displays the extension for a file and "DIR" for a folder.				
(4)	Displays the file name or folder name. For the long file/folder name, entire part may not be displayed. Name Confirm the nondisplayed part with the [Rename] button, etc. Image: 10 fb. Rename operation After confirmation, touch the [Cancel] button to cancel the operation.					
(5)	Path name	Displays the path name of drive /folder which is currently displayed.				
(6)	Size	Displays the size of the file displayed in Name.				
(7)	Date and time	Displays the creation date and time of each file.				
(8)	The size of drive	Displays the size in use and the entire size of the drive which is selected by drive selection.				
(9)	Select all files/Cancel selection	Multiple files can be selected or canceled at once. Touch the [Select all files] button to select all files. If the number of the displayed files exceeds 513, the first 512 files are selected.				
(10)	Operation switch	Execution switch of each function.				
(11)	Number of folders and files	Displays the total number of the displayed files and folders.				

POINT

About the displayed file

The files other than that for logging are not displayed on the logging information screen.

6.5.4 Logging information operation

■1. Display operation of logging information

Step 1. If touch a drive of [Select drive], the information of the touched drive is displayed.

Data control:Data co	ntrol:logg	ing informatio	n		
elect drive	A:\PROJ	CT1\L060001\			
		Name			
A : Built-in CF car		Size	Date	Time	
	DIR				
	0.11	L0G00001_0001			
		512	.2KB 07-30-0	9 13:42	
	7 G1L	L0G00001-0002			
	V		.2KB 07-30-0	9 13:42	
E : USB drive	G1L	L0G00001_0000 512	2KB 07-30-0	9 13:42	
E - Uob drive		L0600001-0002		0 10,42	
		18	.7KB 09-02-0	19 18:42	
	CSV	L0G00001_0001			
		18	.7KB 09-02-0	9 18:43	
ree space					
953.0MB					
rive capacity		1			
955.0MB					
			Number of s	files are selecte electable files i	d (512.2KB in tota n this folder:5 fil
Select all files	G1L→C	SV G1L→TXT			
Cancel selection	Сору	Move	Rename Crea	iteFolder Del	1

- Step 2. If touch a folder name, the information of the touched folder is displayed.
- Step 3. If touch a folder of ". .", the information of the folder of the one upper hierarchy is displayed.
- *Step 4.* If touch the ▲ ▼ button of the scrollbar, the screen scrolls up/down by one line. If touch the ▲ ▼ button, the screen scrolls up/down by one screen.
- Step 5. Touch the check box to select the file.
- Step 6. For operation of operating switches, refer to the following. • G2L \rightarrow CSV, G2L \rightarrow TXT
 - 2. G2L \rightarrow CSV conversion operation, G2L \rightarrow TXT conversion operation
 - Delete
 - ➡ ■3. Deletion operation
 - Copy
 - ➡ ■4. Copy operation
 - Move
 - ➡ 5. Move operation
 - Rename
 - 6. Rename operation
 - Create Folder
 - ➡ ■7. Folder create operation
- Step 7. If touch the [x] button, the screen is closed.

2. G2L \rightarrow CSV conversion operation, G2L \rightarrow TXT conversion operation

A logging file (G2L file) is converted to a CSV file or Unicode text file that can be displayed/edited on a personal computer.

Step 1. Touch the check box of a G2L file which is to be converted to a CSV file or Unicode text file to select the file.

Select drive				
A : Built-in CF card		Name Size	Date	Time
A - built=in ur card	DIR		Date	110/2
	- 01	L0G00001_0001		
			07-30-09	13:42
	🔽 G1L	L0600001-0002 512.2KB	07-30-09	13:42
E : USB drive	G1L	L0G00001_0000		13:42
E : USB drive	CSV	512.2KB L0600001-0002 18.7KB	07-30-09	
		18.7KB	09-02-09	18:42
	Lov	L0G00001_0001 18.7KB	09-02-09	18:43
ree space				
953.0MB				
rive capacity 955.0MB				
		N	1 file lumber of selec	es are selected (512.2KB in total) ctable files in this folder:5 files
Select all files	G1L→C	SV G1L→TXT		
Cancel selection	Сору	Move R	ename CreateFo	lder Del

Step 2. Touch the following button in accordance with destination file type.

- CSV file:
 - $[\text{G2L}\rightarrow\text{CSV}]$ button
- Unicode text file:

 $[\text{G2L}\rightarrow\text{TXT}] \text{ button}$

Step 3. Select the target folder. (Selecting a folder is not needed for outputting directly below the drive.)

		ndName			Time
A : Built-in CF ca	rd		Size	Date	Time .
	DI	R			
		L LOGOOO	512.2KB	07-30-09	13:42
		L L06000	512.2KB	07-30-09	13:42
E : USB drive	G1		01_0000 512.2KB	07-30-09	13:42
	CS CS	V LOGOOO	512.2KB 01-0002 18.7KB	09-02-09	18:42
	CS CS	V LOGOOO	01_0001 18.7KB	09-02-09	18:43
ree space 951.6MB					
rive capacity 955.0MB					
			Nu	1 file mber of selev	es are selected (512.2KB in total) ctable files in this folder:5 files
lease select estination	Exec		Cancel		

Step 4. If touch the [Exec] button, the dialog box mentioned below is displayed. Touch the [OK] button.

(While executing, "Processing..." message appears on the screen.) (Example: Dialog box if the [G2L \rightarrow CSV] button is touched)

Source Change	File conversion from G1L to CSV. Source file: LOG000001_0002.G1L Change to: LOG000001_0002.CSV Change file format?							
ſ								
	0 K		Cancel					

Step 5. When the file, whose name is the same, exists in the destination folder, the dialog box showed below appears without starting the conversion.
 To overwrite the file, touch the [OK] button.
 To cancel the conversion, touch the [Cancel] button.

This folder already contains the file LOG00001-0002.CSV. Do you want to replace the existing file
Modified: 09-02-09 18:42 with this one? Modified: 07-30-09 13:42
0 K Cancel

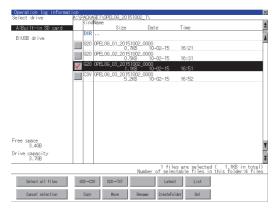
Step 6. The message of completion is displayed in dialog box when conversion is completed. To close the dialog box, touch the [OK] button.

Process completed.
ОК

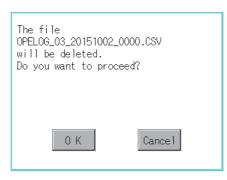
■3. Deletion operation

Folder and file to be used on logging are deleted.

Step 1. Touch the folder to delete or the check box of the file to delete to select the file.



Step 2. If touch the [Del] button, the dialog box mentioned below is displayed.
If touch the [OK] button, the file/folder is deleted.
(While executing, "Processing..." message appears on the screen.)
If touch the [Cancel] button, the deletion is canceled.



Step 3. When the deletion is completed, the completion dialog box is displayed. To close the dialog box, touch the [OK] button.



Step 4. When it cannot be deleted, the dialog box showed below appears. (Only when deleting a folder is executed.)

Verify that there is no file in the folder and execute the delete operation again.

6.5.5 Precautions

The folder cannot be deleted because files or folders exist. Hidden files may exist in the GOT.
0 K

■4. Copy operation

Folder to be used in logging is copied.

Step 1. Touch the check box of the file to copy to select the file.

Operation log informat	on					×
Select drive	A:\PA	ind N	SE1\OPE	1.06_201510	02_1\	
A:Built-in SD card	ſ	Ince	vame	Size	Date	Time
-	C	DIR				
B:USB drive						A
				01_2015100 0.7KB		16:21
				.02_2015100 0.5KB	10-02-15	16:31
	V 6	20 0	OPELOG	_03_2015100 1.1KB	2_0000 10-02-15	16:51
		SV (OPELOG.	.03_2015100 5.2KB	2_0000	16:52
Free space 3,468						
Drive capacity						É
3.768						3
					1 fil Number of sele	es are selected (1.1KB in total) ctable files in this folder:4 files
Select all files	620	→CSV	62	Û→TXT	Lates	it List
Cancel selection	C	opy		Move	Rename CreateFo	ilder Del

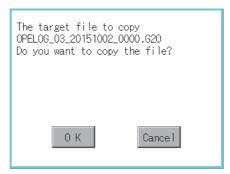
- Step 2. Touch the [Copy] button.
- Step 3. Select the target folder.

(Selecting a folder is not needed for outputting directly below the drive.) At this time, it cannot be copied into the same folder where the file exists. Select other folders.

peration log inform lect drive	B:\					
Built-in SD card	K	i ndName	Size	Date	Time	
:USB drive						
e space						
3.7GB						
ve capacity 3.708						
		_			iles are selected lectable files in t	(
ase select				Number of se	lectable files in i	this tolder U tile
stination	Ex	ec.	Cance1			

Step 4. If touch the [Exec] button, the dialog box mentioned below is displayed. Touch the [OK] button.

(While executing, "Processing..." message appears on the screen.)



Step 5. If there is a file of the same name in the copy destination folder, the following dialog is displayed without starting the copy.

If touch the [OK] button, overwrites the file.

If touch the [Cancel] button, cancels to copy.

This folder already contains the file LOG00001-0002.G1L.
Do you want to replace the existing file
Modified: 07-10-07 10:10
with this one? Modified: 07-30-09 13:42
0 K Cancel

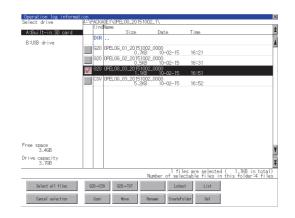
Step 6. When the copy is completed, the dialog box of completion is displayed. To close the dialog box, touch the [OK] button.

Completed the process. Succeeded: 1 Failed: O
0 K

■ 5. Move operation

An operation log file is moved.

Step 1. Touch the check box of the file to be moved to select the file.



- Step 2. Touch the [Move] button.
- Step 3. Select the target folder.

(Selecting a folder is not needed for moving directly below the drive.)

Operation log informat	ion						×
Select drive	<u>₿:\</u>						_
A:Built-in SD card		Kind	Name S	ize	Date	Time	*
B:USB drive							4
Free space							
3.7GB							Ŧ
Drive capacity 3.768							¥
				N	1 files umber of select	s are selected (1.1KB in total) table files in this folder:0 files	
Please select destination		Ехес.	Cance	_			
	_						

Step 4. If touch the [Exec] button, the dialog box mentioned below is displayed. Touch the [OK] button.

(While executing, "Processing..." message appears on the screen.)

Target file: OPELOG_03_20151002_000 Do you want to move th	
0 K	Cancel

Step 5. When any file with the same name exists in the destination folder, the dialog box shown below appears without starting the movement.
Touching the IOK1 button overwrites the file

Touching the [OK] button overwrites the file. If touch the [Cancel] button, cancels moving.

This folder already contains the file LOG00001-0002.G1L.
Do you want to replace the existing file
Modified: 07-10-07 10:10 with this one? Modified: 07-30-09 13:42
0 K Cancel
O K Calcel

Step 6.When moving is completed, completion dialog box is displayed.To close the dialog box, touch the [OK] button.

Completed the Succeeded: 1 Failed: 0	process.
	0 K

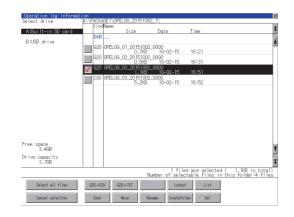
6

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■6. Rename operation

An operation log file is changed.

Step 1. Select the check box of the file to be renamed by touching.



Step 2. Touch the [Rename] button, and then the screen shown below is displayed. Input the file name to be changed.

By touching the following button, input text type is changed.

[A-Z]: Alphabet capital

[0-9]: Numeric/Symbol

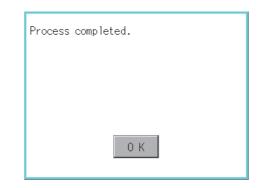
Path Name A:\PACKAGE1\OPELOG_20151002_1 File Name									
<u>8-7</u>	0-y							AC	Щ
1	2	3	4	5	6	7	8	9	0
†	\$	X	å		()	~	^	
0]	{	}	_	ł	-	=	ENT

Step 3. Touch the [Enter] button, and then the dialog box shown below is displayed.

The file name will be changed. Current name: OPELOG_03_20151002_0000.G20 New name:	
OPELOG1.G20 Do you want to proceed?	
0 K Cancel	
U K Cancel	

Step 4.Touch the [OK] button, and then renaming the file is started.
(While executing, "Processing..." message appears on the screen.)

Step 5. When renaming the file is completed, a completion dialog box is displayed. To close the dialog box, touch the [OK] button.



■7. Folder create operation

An operation log folder is created.

Step 1. Touch the [Create Folder] button.

Data control:Data co	ntrol:L	.oggi	ng infor	mation			×
Select drive			CT1\LOGO	001\			-
A : Built-in CF car	đ	Kind		Size	Date	Time	1
		DIR					1
			L0G00001	- 512.2KB	07-30-09	13:42	ľ
	\checkmark		L0600001	512.2KB	07-30-09	13:42	
E : USB drive			L0G00001	512.2KB	07-30-09	13:42	
			L0G00001	18.7KB	09-02-09	18:42	
		CSV	L0G00001	1_0001 18.7KB	09-02-09	18:43	
Free space 953.0MB							
Drive capacity 955.0MB							-
					1 fil Number of sele	es are selected (512.2KB in total ctable files in this folder:5 file) s
Select all files	G	IL→CS	/ G1L	→TXT			
Cancel selection		Сору	М	ove	Rename CreateFo	older Del	

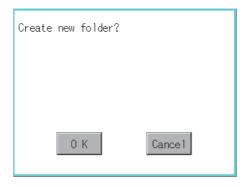
Step 2. The input key window shown below appears, then input the file name to be created. By touching the following button, input text type is changed.

[A-Z]: Alphabet capital

[0-9]: Numeric/Symbol

Path Name A:\PACKAGE1\OPELOG_20151002_1 File Name									
<u>8-7</u>	<u>v-y</u>							Al	
1	2	3	4	5	6	7	8	9	0
†	\$	%	å		(~	^	
Û	[{	}	_	+	-	=	ENT

Step 3. Touch the [Enter] button, and then the dialog box shown below is displayed.



- Step 4. If touch the [OK] button, starts creating folder.
- *Step 5.* When creating folder is completed, completion dialog box is displayed. To close the dialog box, touch the [OK] button.

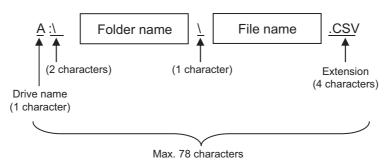
Process completed.								
0 К								

■1. When creating or deleting folders or files

(1) Number of characters set for a folder or file name when creating a folder or file GOT recognizes file location according to path explained below. Specify folder or file name, and total characters of path cannot exceed 78 characters. Users only can rename folder or file name.

(Other than folder/file name is automatically printed.)

Example: CSV file path in a data storage



POINT

If folder is assigned the hierarchy.

The \ mark is displayed between a folder name and folder name, a folder name and file name. The \ mark is also counted as one character.

(2) Character strings that cannot be set to a folder/file

The following character strings cannot be used as a folder name or a file name. Even small characters of those cannot be used.

COM1 to COM9	LPT1 to LPT9	• AUX	• CON
• NUL	• PRN	• CLOCK\$	

In addition, the folder/file name showed below cannot be used.

- · The folder name which begins with G2
- Folder name and file name which begins with . (period)
- Folder name and file name which ends with . (period)
- · Folder name and file name which has only . (one period) or ..(two periods)

(3) For deleting the folder

The folder in which the file exists cannot be deleted.

Delete the folder after having deleted the files.

In addition, on the logging information screen, the files other than logging files are not displayed on GOT. When the folder, in which there is no file displayed on the screen, cannot be deleted, confirm whether there is other file in the data storage by using a personal computer, etc.

■2. Precautions for operation

(1) Precautions during folder/file operation (Create/Delete/Copy/File output, etc)

Even if the cover of the SD card interface is opened while the GOT is processing folders and files, the processing continues to be executed. (Example: Even if the cover of the SD card interface is opened while the GOT is creating a folder, the folder is created.)

Therefore, do not pull out the SD card while the "Processing..." message is on the screen after the cover of the SD card interface is opened.

(2) While GOT is accessing to other file (Alarm data, etc)

When folder/file processing for the logging is executed while the GOT is in access to other files (SD card access LED ON), the GOT executes folder/file processing for the logging after the processing for other files is completed. Therefore, it may take some time to finish the process of the logging folder/file. (The "Processing..." message is displayed on the screen.)

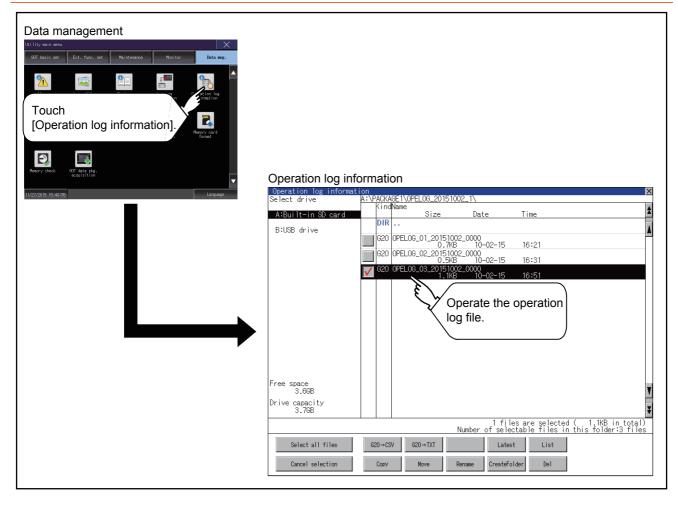
6.6.1 Function of operation log information

Operation log files created with the operation log function can be copied, deleted or renamed, etc. Without using a personal computer, you can manage operation log files on the GOT.

For details of the operation log function, refer to the following.

GT Designer3	(GOT2000)) Screen	Design Manual
		,	Debigir manaa

Function	Description	Reference
Information display of files and folders	Displays name, data size, creation date and time of file or folder.	6.6.2 Display operation of operation log information
$G2O \rightarrow CSV$ conversion	Converts a G2O file of an operation log file to a CSV file.	2. G2O \rightarrow CSV conversion operation, G2O \rightarrow TXT conversion operation
$G20 \rightarrow TXT \text{ conversion}$	Converts a G2O file of an operation log file to a Unicode text file.	2. G2O \rightarrow CSV conversion operation, G2O \rightarrow TXT conversion operation
Deletion	Deletes a file or folder.	■ 3. Deletion operation
Сору	Copies the file.	■ 4. Copy operation
Move	Moves the file.	■ 5. Move operation
Rename	Renames the file.	■ 6. Rename operation
Create Folder	New folder is created.	■ 7. Folder create operation
List	Displays operation logs in a list and allows searching.	8 . List display
Switching display order	Display order of operation log is switched.	(1) Display order switching operation
Search	Operation logs are searched.	(3) Search operation
Latest	Displays the latest operation log in a list.	9 . Latest display



POINT

Default display drive when displaying the operation log information screen.

When [Save to] of the [Environmental Setting] dialog is set in GT Designer3, the default display drive for displaying the operation log information screen is the drive set in GT Designer3.

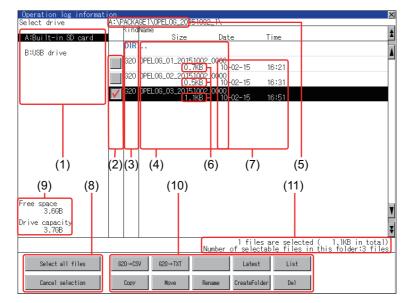
- 🗯 GT Designer3 (GOT2000) Screen Design Manual
- In the following cases, the default display drive is A drive.
- [Save to] is not specified in GT Designer3.
- The drive set as [Save to] in GT Designer3 is not found.

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6

DATA CONTROL

6.6.3 Example of operation log information display



Numb er	Item	Description
(1)	Select drive	The target drive can be selected. (Even if an SD card is not installed, this message appears.)
(2)	Check box	If the check box is selected, up to 512 files can be selected.
(3)	Kind	Indicates whether the displayed name is file or folder. Displays the extension for a file and "DIR" for a folder.
(4)	Name	Displays the file name or folder name. For the long file/folder name, entire part may not be displayed. Confirm the nondisplayed part with the [Rename] button, etc. Image: Imag
(5)	Path name	Displays the path name of drive /folder which is currently displayed.
(6)	Size	Displays the size of the file displayed in Name.
(7)	Date and time	Displays the creation date and time of each file.
(8)	The size of drive	Displays the size in use and the entire size of the drive which is selected by drive selection.
(9)	Select all files/Cancel selection	Multiple files can be selected or canceled at once. Touch the [Select all files] button to select all files. If the number of the displayed files exceeds 513, the first 512 files are selected.
(10)	Operation switch	Execution switch of each function.
(11)	Number of folders and files	Displays the total number of the displayed files and folders.

POINT

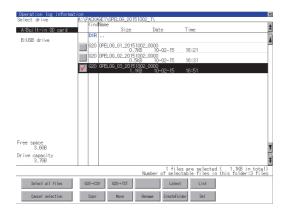
About the displayed file

The files other than that for operation log are not displayed on the operation log information screen.

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■1. Display operation of operation log information

Step 1. If touch a drive of [Select drive], the information of the touched drive is displayed.



- Step 2. If touch a folder name, the information of the touched folder is displayed.
- Step 3. If touch a folder of ". .", the information of the folder of the one upper hierarchy is displayed.
- *Step 4.* If touch the ▲ ▼ button of the scrollbar, the screen scrolls up/down by one line. If touch the ★ ▼ button, the screen scrolls up/down by one screen.
- Step 5. Touch the check box to select the file.
- Step 6. For operation of operating switches, refer to the following. • G2O \rightarrow CSV, G2O \rightarrow TXT
 - 2. G2O \rightarrow CSV conversion operation, G2O \rightarrow TXT conversion operation
 - Deletion
 - 3. Deletion operation
 - Copy

4. Copy operation

Move

5. Move operation

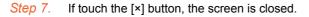
- Rename
 - 6. Rename operation
- Create Folder

7. Folder create operation

List

🗯 📕 8. List display

- Latest
 - 🗯 🔳 9. Latest display



2. G2O \rightarrow CSV conversion operation, G2O \rightarrow TXT conversion operation

An operation log file (G2O file) is converted to a CSV file or Unicode text file that can be displayed/edited on a personal computer.

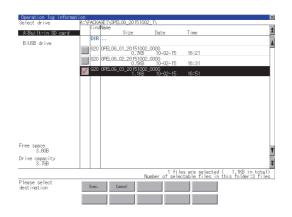
Step 1. Touch the check box of a G2O file which is to be converted to a CSV file or Unicode text file to select the file.

Uperation log informat						×	8
Select drive	A:\PA	CKAGE	1\0PEL06_2	0151002	1\		-
	K	indNa	me				1
A:Built-in SD card			Siz	0	Date	Time	4
A-builte in ob card	D	IR	016	~	baco	1105	а.
B:USB drive		· · · ·					d.
Droop arrive		20 OP	ELOG_01_20	151000.0	000		4
		20 00	1000_01_20	0.7KB	10-02-15	16:21	
		20 OF	EL06_02_20			10121	
	×	20 01	LL00_02_20	0.5KB	10-02-15	16:31	
		00.00	ELOG_03_20		10-02-13	10-01	
	V .	20 08	ELU6_US_A	1.1KB	10-02-15	16:51	
	_			T. IND	10-02-10	10.51	
Free space							ь.
3.6GB							1
							4
Drive capacity							ā.
3.708						8	8
					1 4:1	an ann an Install (1 1/2 in tatal)	٩.
				Num	her of sele	es are selected (1.1KB in total) ctable files in this folder:3 files	
	-			nui	wor or sere	coupie miles milents torder to thres	1
Select all files	620.	→CSV	G20→TXT		Lates	st List	T.
ources an intes	02.0		0.04101		Lates		T.
Cancel selection	Ci	opy	Move	Rena	e CreateFo	older Del	T.
		_					T.

Step 2. Touch the following button in accordance with destination file type.

- CSV file:
 - $[\text{G2O}\rightarrow\text{CSV}]$ button
- Unicode text file:
 - $[G2O \rightarrow TXT] \text{ button}$

Step 3. Select the target folder. (Selecting a folder is not needed for outputting directly below the drive.)



Step 4. If touch the [Exec] button, the dialog box mentioned below is displayed. Touch the [OK] button.

(While executing, "Processing..." message appears on the screen.)

The selected file w into a CSV file. Input file: OPELOG_03_20151002_ Output file: OPELOG_03_20151002_ Do you want to proc	0000.G20 0000.CSV
0 K	Cance 1

(Example: Dialog box if the [G2O \rightarrow CSV] button is touched)

Step 5. When the file, whose name is the same, exists in the destination folder, the dialog box showed below appears without starting the conversion.
 To overwrite the file, touch the [OK] button.

To cancel the conversion, touch the [Cancel] button.

This folder alread OPELOG_20090730_000 Do you want to rep file	
Modified: 09-02-09 with this one? Modified: 07-30-09	
0 K	Cancel

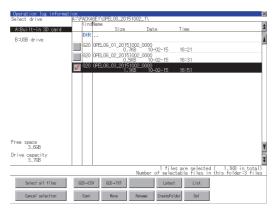
Step 6. The message of completion is displayed in dialog box when conversion is completed. To close the dialog box, touch the [OK] button.

Process	completed.
	О К

■3. Deletion operation

Folder and file to be used on operation log are deleted.

Step 1. Touch the folder to delete or the check box of the file to delete to select the file.



6

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Step 2. If touch the [Del] button, the dialog box mentioned below is displayed.
If touch the [OK] button, the file/folder is deleted.
(While executing, "Processing..." message appears on the screen.)
If touch the [Cancel] button, the deletion is canceled.

The file OPELOG_20090730_000 will be deleted. Do you want to proc	
0 К	Cance 1

Step 3.When the deletion is completed, the completion dialog box is displayed.To close the dialog box, touch the [OK] button.

Deletion has been completed.
0 K

Step 4. When it cannot be deleted, the dialog box showed below appears. (Only when deleting a folder is executed.)

Verify that there is no file in the folder and execute the delete operation again.

➡ 6.6.5 Precautions



■4. Copy operation

An operation log file is copied.

- Step 1. Touch the check box of the file to copy to select the file.
 - Ents control Biols control Biols and to log information
 X

 Select of the ALPPACE (LYPELOS)
 Select of the ALPPACE (LYPELOS)
 Select of the ALPPACE (LYPELOS)

 S = Byiltein CF card
 (Induine Size Date Time
 Select of the ALPPACE (LYPELOS)
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 S = Byiltein CF card
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 Select of the ALPPACE (LYPELOS)

 S = Byiltein CF card
 (Induine Size Date Time
 Select of the ALPPACE (LYPELOS)
 Select of the ALPPACE (LYPELOS)

 S = System
 (Induine Size Date Time)
 (Induine Size Date Time)
 Select of the ALPPACE (LYPELOS)

 E : USB drive
 (Induine Size Coord)
 (Induine Size Coord)
 (Induine Size Coord)

 C : USB drive
 (Induine Size Coord)
 (Induine Size Coord)
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 C : USB drive
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 C : USB drive
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 C : USB drive
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 (Induine Size Coord)
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 C : USB drive
 (Induine Size Coord)
 (Induine Size
- Step 2. Touch the [Copy] button.
- Step 3. Select the target folder.

(Selecting a folder is not needed for outputting directly below the drive.) At this time, it cannot be copied into the same folder where the file exists. Select other folders.

Data control:Data contr	ro1:0	lpera	tion lo	og information	1		×
Select drive			CT1\OPE	1.06\			_
A : Built-in CF card		Kind	Name	Size	Date	Time	\$
		DIR					5
				20090730_0000 0.2KB		15:54	Ē
	\checkmark			.20090730_000 2.0KB	07-30-09	15:50	
E : USB drive		G10	OPELOG	20090730 0002 0.2KB	07-30-09	18:19	
		USV	UPELUG.	20090730_000 8.7KB	09-02-09	15:24	
				20090730 0002 1.0KB		16:17	
		610	OPELOG.	.20090902_0000 2.1KB	09-02-09	16:19	
Free space 950.8MB							Ŧ
Drive capacity 955.0MB							¥
				Nun	1 files ber of select	are selected (2.0KB in total) able files in this folder:6 files	[
Please select destination		Exec.	C	ancel			

Step 4. If touch the [Exec] button, the dialog box mentioned below is displayed. Touch the [OK] button.

(While executing, "Processing..." message appears on the screen.)

The target file to OPELOG_20090730_000 Do you want to copy)1.G10
0 К	Cance 1

Step 5. If there is a file of the same name in the copy destination folder, the following dialog is displayed without starting the copy.

If touch the [OK] button, overwrites the file. If touch the [Cancel] button, cancels to copy.

This folder already contains the file OPELOG_20090730_0001.610. Do you want to replace the existing file
Modified: 07-30-09 15:50 with this one? Modified: 07-30-09 15:50
0 K Cancel

Step 6. When the copy is completed, the dialog box of completion is displayed. To close the dialog box, touch the [OK] button.

Completed the Succeeded: 1 Failed: 0	process.
	0 K

■ 5. Move operation

An operation log file is moved.

Step 1. Touch the check box of the file to be moved to select the file.

Data control:Data co Select drive	ntrol:Operation log information	
elect drive	KindName	
λ∶Built-in CF car	d Size Date Time	_
	DIR	
	G10 0PEL06_20090730_0000 0.2KB 07-30-09 15:54	
	G10 0PEL06_20090730 0001 2.0KB 07-30-09 15:50	
E : USB drive	G10 0PEL0G_20090730 0002 0.2KB 07-30-09 18:19	
	CSV 0PEL06_20090730_0001 8.7KB 09-02-09 14:48	
	CSV 0PEL.06_20090730_0002 1.0KB 09-02-09 14:48	
	G10 0PEL06_20090902_0000 0.2KB 09-02-09 14:58	
ree space 954.5MB		
rive capacity 955.0MB		
	1 files are selected (2.0KB in to Number of selectable files in this folder:6 fi	tal) iles
Select all files	610→CSV 610→TXT Latest List	
Cancel selection	Copy Nove Rename CreateFolder Del	

Step 2. Touch the [Move] button.

Step 3. Select the target folder.

(Selecting a folder is not needed for moving directly below the drive.)

Data control:Data co	ontrol:Opera		log information		
elect drive	A:\PROJE		PELOG\		
		Name			
A : Built-in CF car	d		Size	Date	Time
	DIR	· · ·			
	G10	OPEL O	G_20090730 0000		
			0.2KB	07-30-09	15:54
	7 610	OPELO	6_20090730_0001		
		0000.0	2.0KB	07-30-09	15:50
E : USB drive	GIU	UPELU	G_20090730_0002 0.2KB	07-30-09	18:19
E + 000 di Hic	CSV.	OPEL 0	6 20090730 0001		
			8.7KB	09-02-09	15:24
	CSV	OPEL.0	G_20090730_0002 1.0KB		16:17
		0000.0	1.0KB G_20090902_0000	09-02-09	16:17
	010	UPELU	3.0KB	09-02-09	16:36
ree space					
948.9MB					
rive capacity					
955.0MB					
				1 file	s are selected (2 OKB in tota
			Num	ber of selec	es are selected (2.0KB in tota stable files in this folder:6 fil
lease select			II		
lestination	Exec.		Cance1		

Step 4. If touch the [Exec] button, the dialog box mentioned below is displayed. Touch the [OK] button.

(While executing, "Processing..." message appears on the screen.)

Target file: OPELOG_20090730_000 Do you want to move	
0 К	Cance 1

Step 5. When any file with the same name exists in the destination folder, the dialog box shown below appears without starting the movement.

Touching the [OK] button overwrites the file. If touch the [Cancel] button, cancels moving.

This folder already contains the file OPELOG_20090730_0001.G10. Do you want to replace the existing
file Modified: 07-30-09 15:50 with this one? Modified: 07-30-09 15:50
0 K

Step 6. When moving is completed, completion dialog box is displayed. To close the dialog box, touch the [OK] button.

Completed the Succeeded: 1 Failed: 0	process.
	0 K

■6. Rename operation

An operation log file is changed.

Step 1. Select the check box of the file to be renamed by touching.

Data control:Data con elect drive	A:\PRO.	ation	PELING\	ation			
	Kir	Name					
A : Built-in CF card			Size	Da	te	Time	
	DI	R					
	G1	D OPEL O	G. 2009073	0000			
			- 0.2	2KB 07	-30-09	15:54	
	V G1	d opeto	6_20090,73/	0 0001 1KB 07	-30-09		
	G1	OPELO	G 2009073	0.0002			
E : USB drive			- 0.2		-30-09	18:19	
	LSI	7 JUPELU	6_2009073) 0001 %B 09	-02-09	14:48	
	- CS	/ OPELO	G 2009073	0.0002			
			- 1.0		I-02-09	14:48	
	61) IOPELO	6_2009090;	2 0000 %B 09	-02-09	14:58	
			011		02 00	11.00	
ee space							
954.5MB							
ive capacity							
955.0MB							
				Nurber	1 file of sele	es are selected (2.0KB ctable files in this fold	in tota er:6 file
Select all files	610→	CSV	G10→TXT		Lates	t List	
-		==					
Cancel selection	Cop		Nove	Benane	CreateFo	1der De1	

Step 2. Touch the [Rename] button, and then the screen shown below is displayed. Input the file name to be changed.

By touching the following button, input text type is changed.

[A-Z]: Alphabet capital

[0-9]: Numeric/Symbol

									×
A:\F	Path Name A:\PROJECT1\OPELOG File Name								
						LOG-	-A_L(6	
A-Z	0-9							AC	DEL
Q	H	Ε	R	T	Y	U		0	P
A	S	D	F	G	H	J	K	L	
Ζ	X	C	V	B	N	M		Ent	ter

Step 3. Touch the [Enter] button, and then the dialog box shown below is displayed.

The file name will be changed. Current name: OPELOG_20090730_0001.G10 New name: LOG-A_LOG.G10 Do you want to proceed?
0 K Cancel

Step 4. Touch the [OK] button, and then renaming the file is started. (While executing, "Processing..." message appears on the screen.)

Step 5. When renaming the file is completed, a completion dialog box is displayed. To close the dialog box, touch the [OK] button.



■7. Folder create operation

An operation log folder is created.

Step 1. Touch the [Create Folder] button.

Data control:Data c Select drive			tion l		nation			
elect of ive			Name					
A : Built-in CF ca				Size		Date	Time	
		DIR	••					
				_2009073i 0.2	2KB	07-30-09	15:54	
	V.			_2009073i 2.0	jkb 👘	07-30-09	15:50	
E : USB drive				_2009073i 0.2	2KB	07-30-09	18:19	
				_2009073	7KB	09-02-09	14:48	
				_2009073i 1.0	DKB	09-02-09	14:48	
		610	OPELOG	_2009090; 0.2	2 0000 2KB	09-02-09	14:58	
ree space 954.5MB								
rive capacity 955.0MB								
					Nurrb	1 fi er of sel	les are selected ectable files in	l (2.0KB in total I this folder:6 file
Select all files	6	10→CS	V G	10→TXT		Lat	est List	
Cancel selection		Сору		Nove	Renam	e Create	Folder Del	

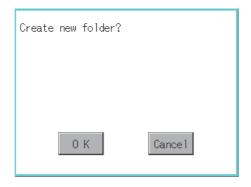
Step 2. The input key window shown below appears, then input the file name to be created. By touching the following button, input text type is changed.

[A-Z]: Alphabet capital

[0-9]: Numeric/Symbol

Path A:\F File	ROJE	ËCT 1'	\0PE	LOG					×
<u>اگ</u>	በ-0		(LOG	- <u>0</u> AC	DFI (
Q		E	R	T	Y	U		0	P
A	S)	F	G	H	J	K	L	
Ζ	X	C	V	B	N	M		Ent	ter

Step 3. Touch the [Enter] button, and then the dialog box shown below is displayed.



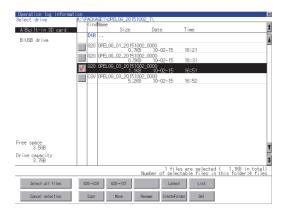
- Step 4. If touch the [OK] button, starts creating folder.
- *Step 5.* When creating folder is completed, completion dialog box is displayed. To close the dialog box, touch the [OK] button.

Process co	mpleted.	
	0 K	

■8. List display

Displays operation logs in an operation log file in a list.

Step 1. Touch the check box of the file to display the list to select the file.



Step 2. Touching the [List] button displays the list. In the list, the following contents can be checked.

Display items: Date

- Time
 - Screen No.
 - Operation type
 - Value after change
- For operation of operating switches, refer to the following.
- Date (ascending/descending)
 - (1) Display order switching operation
- Search
 - (3) Search operation

)ate	2015 Time	Screen No.	Operation	Chanze To	
	16:51:33		Switch applications	Utility	
10/02	16:51:28	-	Switch applications	Utility	
10/02	16:51:28	B -2	Touch switch: Application switching	-	
10/02	16:51:26	B -2	Touch switch: Bit ALT	1	
	16:51:25		Screen switching: Base	BASE 2	
10/02	16:51:07	B -1	Touch switch: Screen switching	ERSE_2	
10/02	16:51:06	-	Screen switching: Base	BeSE_1	
10/02	16:51:06	-	Switch applications	Monitor	
10/02	16:50:46		Switch applications	Utility	
10/02	16:50:39	-	Switch applications	Utility	
10/02	16:50:37	-	Switch applications	Utility	
10/02	16:50:37	B -1	Touch switch: Application switching	-	
10/02	16:50:34		Screen switching; Base	BeSE_1	
10/02	16:50:34	-	Display system language	English	
10/02	16:50:34	-	Switch applications	Monitor	
	16:50:34		Set time zone	GMT 00:00	
10/02	16:50:34	-	Start GOT	G0T_No=0	
10/02	16:50:33	-	Simple restart of GOT	-	
10/02	16:50:32	-	Switch system languages	English	
10/02	16:50:28	-	Switch applications	Utility.	
10/02	16:50:25	-	Switch applications	Utility	
10/02	16:50:05	-	Switch applications	Utility	
10/02	16:50:04	-	Switch applications	Delitev	
10/02	16:50:04	B -1	Touch switch: Application switching	-	
10/02	16:50:03	-	Screen switching: Base	BeSE_1	
10/02	16:50:03	-	Switch applications	Monitor	
10/02	16:49:58	-	Switch applications	Utility	

Step 3. To display the details of an operation log, touch the row for that operation log to select it. The color of the row is inverted (white black).

ate Time Screen	No. Operation	Change To	
0/02 16:51:33 -	Switch applications	Utility	
0/02 16:51:28 -	Switch applications	Utility	
0/02 16:51:28 B -2	Touch switch: Application switching	-	
0/02 16:51:26 B -2	Touch switch: Bit ALT	1	
0/02 16:51:25 -	Screen switching: Base	BRSE_2	
0/02 16:51:07 B -1	Touch switch: Screen switching	ERSE_2	
0/02 16:51:06 -	Screen switching: Base	BASE_1	
0/02 16:51:06 -	Switch applications	Monitor	
0/02 16:50:46 -	Switch applications	Dtility	
0/02 16:50:39 -	Switch applications	Utility	
0/02 16:50:37 -	Switch applications	Utility	
0/02 16:50:37 B -1	Touch switch: Application switching	-	
0/02 16:50:34 -	Screen switching: Base	BRSE_1	
0/02 16:50:34 -	Display system language	English	
0/02 16:50:34 -	Switch applications	Manitor	
0/02 16:50:34 -	Set time zone	GMT 00:00	
0/02 16:50:34 -	Start GOT	GOT_No+O	
0/02 16:50:33 -	Simple restart of GOT	-	
0/02 16:50:32 -	Switch system languages	English	
0/02 16:50:28 -	Switch applications	Utility	
0/02 16:50:25 -	Switch applications	Utility	
0/02 16:50:05 -	Switch applications	Utility	
0/02 16:50:04 -	Switch applications	Utility	
0/02 16:50:04 B -1	Touch switch: Application switching	-	
0/02 16:50:03 -	Screen switching: Base	BRSE_1	
0/02 16:50:03 -	Switch applications	Monitor	
0/02 16:49:58 -	Switch applications	Utility	

Step 4. Touching the selected row again displays the detailed information for the operation log. Touch the [x] button to close the dialog box.

Date/Time	:10/02/2015	16:50:46	×
	:AppChng		
- Switch appli	cations		
Screen No	:-		
Operation	:		
-			
Operator	:-	(ID:-)
User ID	:-		
Action No	:-		
Data Type	:-		
Device	:-		
Change To	:Utility		
Change To(Ope	.):-		
ChngFrom	:-		
Chng From(Dis	p):-		

(1) Display order switching operation

- Step 1. Touch [Date (ascending)]/[Date (descending)] in the list to switch the display order of operation logs. [Date (ascending)] and [Date (descending)] are switched every time the button is touched. The buttons show the current display order.
 - [Date (ascending)]: Data is displayed in chronological order as collected.
 - [Date (descending)]: Data is displayed in reverse chronological order as collected.

ate Time Screen	No. Operation	Chanze To	_
0/02 16:51:33 -	Switch applications	Utility	-
/02 16:51:28 -	Switch applications	Utility	
V02 16:51:28 B -2	Touch switch: Application switching	-	
V02 16:51:26 B -2	Touch switch: Bit ALT	1	
/02 16:51:25 -	Screen switching: Base	BRSE_2	
V02 16:51:07 B -1	Touch switch: Screen switching	BRSE_2	
/02 16:51:06 -	Screen switching: Base	EBSE_1	
0/02 16:51:06 -	Switch applications	Monitor	
/02 16:50:46 -	Switch applications	Utility	
/02 16:50:39 -	Switch applications	Utility	_
/02 16:50:37 -	Switch applications	litility	
V02 16:50:37 B -1	Touch switch: Application switching	-	
/02 16:50:34 -	Screen switching; Base	BRSE_1	
/02 16:50:34 -	Display system language	English	
/02 16:50:34 -	Switch applications	Monitor	
0/02 16:50:34 -	Set time zone	GMT 00:00	
3/82 16:50:34 -	Start GOT	G0T_No=0	
3/82 16:50:33 -	Simple restart of GOT	-	
0/02 16:50:32 -	Switch system languages	English	
0/02 16:50:28 -	Switch applications	Utility	
/02 16:50:25 -	Switch applications	Utility	
/02 16:50:05 -	Switch applications	Utility	
/02 16:50:04 -	Switch applications	litility	
V02 16:50:04 B -1	Touch switch: Application switching		
/02 16:50:03 -	Screen switching: Base	BBSE_1	
/02 16:50:03 -	Switch applications	Monitor	
/02 16:49:58 -	Switch applications	Utility	
1/02 16:49:58 - [-] / - (ID:-)	Switch applications	ptility	-
Date (descend	Iwape	Search Search	

POINT

(1) Selected line position after switching the display order

After the display order is switched while lines are selected, the lines still remain selected. Depending on which line is selected, the selected line may not be displayed on the screen after switching the display order.

(2) Display order of operation logs in non-chronological order

When the display order of operation logs are switched, the logs are displayed in order as collected, not in order as the date they are collected.

In case that the displayed operation logs are not lined up in time order due to the time change of GOT clock, the displayed logs may not be lined up in order of the log dates even though the operation logs are switched.

(2) Display operation of screen image

Step 1. Touch the [Image] button in the list to switch displaying/hiding the window of the screen image corresponding to the operation log in the selected row.

Touch the title bar to move the window of the screen image.

The window of the screen image is displayed until the display of the list is closed.

Touch the 🖂 button to close the window of the screen image.

D	···-·· /r		C	h	1. 0	og Information:Operation Log Data List	
Prog	ram/L	ata	. con	tro	1. Operation Log	g information-operation Log Data List 🛛 🦻	ñ
E11a	Mono	0.10	ano loc	+1\0	PELOG\OPELOG_20000122	22 0000 010	
THE	Nalle	n• v	10060	0110		22.0000.010	
A.D.	2000					01/22/2000 22:30:10	
	Time	0	Croon	Mo	Operation		-
	22:31		-	NU.	Switch applications	Example 3 Recipe File Used 2	
	22:31		_		Switch applications		*
	22:30:		2		Switch applications	and a second sec	Å
						ecord to. • Increment / Decrement Record No.	7
	22:30:		5 -1		Touch switch: Appli	KCg. NO. In of Advanced Recise Common Setting	
	22:30:				Screen switching: B		
	22:30				Touch switch: Scree	Product ID	
	22:30		3 -3		Touch switch: Word		
	22:30		-		Screen switching: B		
	22:30				Touch switch: Scree		
	22:30		-		Screen switching: B		
	22:30		3-3		Touch switch: Scree		
01/22	22:30	:07	-		Screen switching: B	(crr)	
01/22	22:30	:07 E	3 -2		Touch switch: Scree		
01/22	22:30:	:07 E	3 -2		Touch switch: Word	This example uses External Control Device, Recise Setting No. Device and Record No. Device which are set in Hanneed Recise Common Setting.	
01/22	22:30:	:06	-		Screen switching: 0		
01/22	22:30:	:04	-			B-4 Touch switch: Screen switchin	
01/22	22:30:	:04 E	3 -2		Touch switch: Scree	Change To: BASE_3	ł
01/22	22:30:	:02	-		Screen switching: Ov	Overlap 1 OVL1_0	Ŧ
01/22	22:29	56	-		Screen switching: Ov	Overlap 1 OVL1_1	Ŧ
	10		s				
- / L	evel0	(10:0	IJ				_
D	ate (de	iscen	ding)		Image	Search Search	

(3) Search operation

Step 1. Touching [Search] in the list enables searching of a log using the following items. Item: Date

Time

1/02 16:44:12 - Start GOT 1/02 16:44:12 - Set time z 1/02 16:44:12 - Switch app		GOT_No-O	
1/02 16:44:12 - Switch app		GMT 00:00	
	lications	Monitor	
0/02 16:44:12 - Display sy	stem language	Japanese	
1/02 16:44:12 - Screen swi	tching; Base	BASE_1	
)/02 16:45:03 B -1 Touch swit	ch: Application switching	_	
)/02 16:45:03 - Switch app	lications	Utility	
1/02 16:45:08 - Switch app	lications	Utility	
0/02 16:45:18 - Switch app	lications	Utility	
1/02 16:45:22 - Switch app	lications	Utility	
1/02 16:45:26 - Switch app	lications	litility	
1/02 16:45:34 - Switch app	lications	Utility	
1/02 16:45:36 - Switch app		Utility	
0/02 16:45:48 - Start GOT		GOT_No=0	
1/02 16:45:48 - Set time z	cope	GMT 00:00	
1/02 16:45:48 - Switch app		Monitor	
	stem language	Japanese	
	tching: Base	BASE 1	
	ch: Application switching	onder 1	
1/02 16:46:36 - Switch app		Itility	
0/02 16:46:40 - Switch app		Utility	
1/02 16:49:58 - Switch app		Utility	
1/02 16:50:03 - Switch app		Nonitor	
	tching: Base	BeSF 1	
	ch: Application switching	Unoc_ I	
1/02 16:50:04 5 -1 Touch surt		Utility	
0/02 16:50:04 - Switch app		Utility	
1/02 10:50:05 - SMITCH app	Ticactoris	ptility	

Step 2. Input the date or time to be searched.

te Time Screen N	n. Operation	Change To	
/02 16:44:12 -	Start BDI	GOT_No=0	
/02 16:44:12 -	Set time zone	ENT 00:00	
/02 16:44:12 -	Switch applications	Monitor	
/02 16:44:12 -	Display system language	Japanese	
/02 16:44:12 -	Screen switching: Rase	RESE 1	
/02 16:45:03 B -1	Touch switch:		
/02 16:45:03 -	Switch applica	Utility	
02 16:45:08 -	Switch applics Date 2015 / 10 / 201	YYY/NN/DD) Utility	
02 16:45:18 -			
02 16:45:22 -	Switch applies Time 13: 18~:	Utility	
02 16:45:26 -	Sailah anglia	1401040	
02 16:45:34 -	Switch applics 7 8 9 AC	Utility	
/02 16:45:36 -	Switch applics	Utility	
/02 16:45:48 -			
/02 16:45:48 -	Start GOT 4 5 6 De	ENT 00:00	
/02 16:45:48 -		Keniter	
/02 16:45:48 -	Display system 1 2 3	Japanese	
02 16:45:48 -	Screen exitchi	BRSE_1	
/02 16:45:49 B -1	Touch switch: 0 Enter 4	Chick_ I	
/02 16:46:36 -	Switch applics	Utility	
02 16:46:40 -	Switch applications	Utility	
02 16:49:58 -	Switch applications	Utility	
02 16:50:03 -	Switch applications	Monitor	
02 16:50:03 -	Screen switching: Base	REF 1	
02 16:50:04 B -1	Touch switch: Application switching	-	
02 16:50:04 -	Switch applications	Utility	
/02 16:50:05 -	Switch applications	Utility	

Step 3. Touch the [Enter] button, and then the dialog box shown below is displayed. Touch the [OK] button.

(When processing is being executed, the "Processing" message is displayed on the screen.)

Program/Data Conti	rol: Operation Log Information:Operation Log Data List		×
File Name A:\PACKAGE1	\0PEL06_20151002_1\0PEL06_03_20151002_0000.620		
A.D. 2015			
	o. Operation	Change To	
10/02 16:44:12 -	Start GOT	GOT_No=0	
10/02 16:44:12 -	Set time zone	GMT 00:00	*
10/02 16:44:12 -	Switch applications	Moni tor	
10/02 16:44:12 -	Display system language	Japanese	-
10/02 16:44:12 -	Screen switching: Base	BESE_1	
10/02 16:45:03 B -1	Touch switch:	DINC_1	
10/02 16:45:03 -		Utility	
10/02 16:45:08 -	Contact	Utility	
10/02 16:45:18 -	Switch applica Do you want to search?	Utility	
10/02 16:45:22 -	Switch applica	Utility	
10/02 16:45:26 -	Switch applica	Utility	
10/02 16:45:34 -	Switch applica	Utility	
10/02 16:45:36 -	Switch applica	Utility	
10/02 16:45:48 -	Start GOT	GOT_No=0	
10/02 16:45:48 -	Set time zone	GMT 00:00	
10/02 16:45:48 -	Switch applics	Moni tor	
10/02 16:45:48 -	Display system	Japanese	
10/02 16:45:48 -	Screen switchi O K Cancel	BASE_1	
10/02 16:45:49 B -1	Touch switch:	-	
10/02 16:46:36 -	Switch applics	Utility	
10/02 16:46:40 -	Switch applications	Utility	
10/02 16:49:58 -	Switch applications	Utility	
10/02 16:50:03 -	Switch applications	Moni tor	
10/02 16:50:03 -	Screen switching: Base	BRSE_1	
10/02 16:50:04 B -1	Touch switch: Application switching	-	Ŧ
10/02 16:50:04 -	Switch applications	Utility	
10/02 16:50:05 -	Switch applications	Utility	¥
Date (ascending)	Inaze	V Sea	rch
Pare respending)	110350	A 069	011

Step 4.The results found are displayed and the dialog box shown below is displayed.To continue a search, touch the [OK] button.To stop a search, touch the [Cancel] button.

Program/Data Conte	ol: Operation Log Information:Operat	tion Log Data List	
File Name A:\Project1	\OPELOG\OPELOG_20000122_0000.G10		
A.D. 2000			
	o. Operation	Change To	
01/22 22:31:24 -	Switch applications	Utility	E
01/22 22:31:02 -	Switch applications	ty nonitor	
01/22 22:30:12 -		ty	
01/22 22:30:12 B -1	Conditions: 01/22/2000 22:31		Γ
01/22 22:30:11 -	detected.	.1	
01/22 22:30:10 B -3	detected.	.1	
01/22 22:30:10 B -3	Is processing continued?		
01/22 22:30:10 -	is processing continued.	.3	
01/22 22:30:10 B -4		.3	
01/22 22:30:08 -		.4	
01/22 22:30:08 B -3		.4	
01/22 22:30:07 -		.3	
01/22 22:30:07 B −2		.3	
01/22 22:30:07 B −2	0 K Cancel		
01/22 22:30:06 -		10	
01/22 22:30:04 -		.1	
01/22 22:30:04 B -2	IOUCH SWITCH. SCIEREN SWITCHING	UVE 121	3
01/22 22:30:02 -	Screen switching: Overlap 1	OVL1_0	
01/22 22:29:56 -	Screen switching: Overlap 1	0VL1_1	8
Date (descending)		Search	

Step 5. When searching is completed, a completion message is displayed in the dialog box. To close the dialog box, touch the [OK] button.

Program/Data Cont	rol: Operation Log Information:Operation Log D	ata List	×
File Name A:\PACKAGE	1\0PEL06_20151002_1\0PEL06_03_20151002_0000.620		
A.D. 2015			_
	No. Operation	Change To	-
10/02 16:44:12 -	Start GOT	GOT_No=0	ź
10/02 16:44:12 -	Set time zone	GMT 00:00	а.
10/02 16:44:12 -	Switch applications	Monitor	
10/02 16:44:12 -	Display system language	Japanese	1
10/02 16:44:12 -	Screen switching: Base	BASE_1	1
10/02 16:45:03 B -1	Touch switch:	-	1
10/02 16:45:03 -	Switch applica Search completed.	Utility	1
10/02 16:45:08 -	Switch applica dearch completed.	Utility	1
10/02 16:45:18 -	Switch applica	Utility	1
10/02 16:45:22 -	Switch applica	Utility	1
10/02 16:45:26 -	Switch applica	Utility	1
10/02 16:45:34 -	Switch applica	Utility	1
10/02 16:45:36 -	Switch applica	Utility	1
10/02 16:45:48 -	Start GOT	GOT_No=0	1
10/02 16:45:48 -	Set time zone	GMT 00:00	1
10/02 16:45:48 -	Switch applica	Monitor	1
10/02 16:45:48 -	Display system Screen switchi O K	Japanese	1
10/02 16:45:48 -		BRSE_1	1
10/02 16:45:49 B -1	Touch switch:	-	1
10/02 16:46:36 -	Switch applics	Utility	1
10/02 16:46:40 -	Switch applications	Utility	1
10/02 16:49:58 -	Switch applications	Utility	1
10/02 16:50:03 -	Switch applications	Monitor	1
10/02 16:50:03 -	Screen switching; Base	BRSE_1	
10/02 16:50:04 B -1	Touch switch: Application switching	-	
10/02 16:50:04 -	Switch applications	Utility	
10/02 16:50:05 -	Switch applications	Utility	¥
			-
			-
Date (ascending)	Inace	Search	
Date (appending)	mage	V Obtron	

■9. Latest display

The latest operation log files are selected and displayed in a list.

Step 1. If touch the [Latest] button, the latest one in the operation log files is displayed in a list.

Operation log informa	tion				×
Select drive	A:\PACKAE Kind	E1\0PEL06_201	51002_1\		
A:Built-in SD card	The	Size	Date	Time	\$
	DIR				7
B:USB drive	G20 0	OPELOG_01_2015	1002_0000		<u> </u>
		0.1	7KB 10-02-15	16:21	
	620	OPEL06_02_2015	1002_0000 5KB 10-02-15	16:31	
	G20 G	OPELOG_03_2015	1002_0000 1KB 10-02-15	16:51	
Free space 3,668					Ŧ
Drive capacity 3.768					¥
			0 fi Number of sele	les are selected (actable files in thi	0.0KB in total) s folder:3 files
Select all files	620→CSV	G20→TXT	Late	st List	
Cancel selection	Сору	Move	Rename CreateF	older Del	

Step 2. In the list, the following contents can be checked.

- Display items: Date
 - Time
 - Screen No.
 - Operation type
 - Value after change

For operation of operating switches, refer to the following.

- Date (ascending/descending)
 - (1) Display order switching operation
- Search
 - (3) Search operation

ate Time Screen	1 No. Operation	Change To	
10/02 16:51:33 -	Switch applications	Utility	
0/02 16:51:28 -	Switch applications	Utility	1
0/02 16:51:28 B -2	Touch switch: Application switching	-	
10/02 16:51:26 B -2	Touch switch: Bit ALT	1	
10/02 16:51:25 -	Screen switching: Base	BASE.2	
10/02 16:51:07 B -1	Touch switch: Screen switching	BASE_2	
0/02 16:51:06 -	Screen switching: Base	BASE_1	
10/02 16:51:06 -	Switch applications	Monitor	
0/02 16:50:46 -	Switch applications	Utility	
10/02 16:50:39 -	Switch applications	Utility	
0/02 16:50:37 -	Switch applications	Utility	
0/02 16:50:37 B -1	Touch switch: Application switching	-	
10/02 16:50:34 -	Screen switching: Base	BASE_1	
10/02 16:50:34 -	Display system language	English	
10/02 16:50:34 -	Switch applications	Monitor	
10/02 16:50:34 -	Set time zone	GMT 00:00	
10/02 16:50:34 -	Start GOT	G0T_No=0	
0/02 16:50:33 -	Simple restart of GOT	-	
0/02 16:50:32 -	Switch system languages	English	
0/02 16:50:28 -	Switch applications	Utility	
10/02 16:50:25 -	Switch applications	Utility	
0/02 16:50:05 -	Switch applications	Utility	
0/02 16:50:04 -	Switch applications	Utility	
10/02 16:50:04 B -1	Touch switch: Application switching	-	
0/02 16:50:03 -	Screen switching: Base	BASE_1	
10/02 16:50:03 -	Switch applications	Monitor	
10/02 16:49:58 -	Switch applications	Utility	

Step 3. For the method for displaying the detail of each operation log, refer to the following.

■ ■8. List display

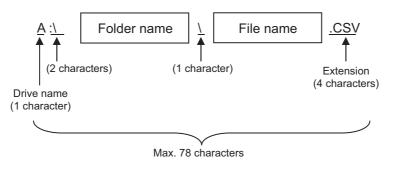
ate Time Screen	No. Operation	Change To	_
0/02 16:51:33 -	Switch applications	Utility	
3/02 16:51:28 -	Switch applications	Utility	
3/82 16:51:28 B -2	Touch switch: Application switching	L.	
1/02 16:51:26 B -2	Touch switch: Bit ALT	1	
3/02 16:51:25 -	Screen switching; Base	BASE_2	
3/82 16:51:07 B -1	Touch switch: Screen switching	BRSE.2	
3/82 16:51:06 -	Screen switching: Base	EeSE_1	
1/02 16:51:06 -	Switch applications	Monitor	
0/02 16:50:46 -	Switch applications	Utility	
3/02 16:50:39 -	Seitch applications	Utility	
1/02 16:50:37 -	Switch applications	Utility	
1/02 16:50:37 B -1	Touch switch: Application switching	ectito -	
3/02 16:50:34 -	Screen switching; Base	BASE_1	
3/82 16:50:34 -	Display system language	English	
1/02 16:50:34 -	Switch applications	Monitor	
1/02 16:50:34 -	Set time zone	ISMT 00:00	
3/02 16:50:34 -	Start GOT	G0T_No=0	
3/02 16:50:33 -	Simple restart of GDT	-	
1/02 16:50:32 -	Switch system languages	English	
0/02 16:50:28 -	Switch applications	Utility	
3/02 16:50:25 -	Switch applications	Utility	
3/02 16:50:05 -	Switch applications	Utility	
0/02 16:50:04 -	Switch applications	Utility	
1/02 16:50:04 B -1	Touch switch: Application switching		
3/82 16:50:03 -	Screen switching: Base	ERSE_1	
1/02 16:50:03 -	Switch applications	Monitor	
0/02 16:49:58 -	Switch applications	Utility	

6.6.5 **Precautions**

■1. When creating or deleting folders or files

(1) Number of characters set for a folder or file name when creating a folder or file GOT recognizes file location according to path explained below. Specify folder or file name, and total characters of path cannot exceed 78 characters. Users only can rename folder or file name. (Other than folder/file name is automatically printed.)

Example: CSV file path in a data storage



POINT

If folder is assigned the hierarchy.

The \ mark is displayed between a folder name and folder name, a folder name and file name. The \ mark is also counted as one character.

(2) Character strings that cannot be set to folder/file

The following character strings cannot be used as a folder name or a file name. Even small characters of those cannot be used.

COM1 to COM9	LPT1 to LPT9	• AUX	• CON
• NUL	• PRN	• CLOCK\$	

In addition, the folder/file name showed below cannot be used.

- The folder name which begins with G2
- · Folder name and file name which begins with . (period)
- · Folder name and file name which ends with . (period)
- Folder name and file name which has only . (one period) or ..(two periods)

(3) For deleting the folder

The folder in which the file exists cannot be deleted.

Delete the folder after having deleted the files.

In addition, on the operation log information screen, the file other than that for operation log is not displayed on GOT. When the folder, in which there is no file displayed on the screen, cannot be deleted, confirm whether there is other file in the data storage by using a personal computer, etc.

2. Precautions for operation

(1) Precautions during folder/file operation (Create/Delete/Copy/File output, etc)

Even if the cover of the SD card interface is opened while the GOT is processing folders and files, the processing continues to be executed. (Example: Even if the cover of the SD card interface is opened while the GOT is creating a folder, the folder is created.)

Therefore, do not pull out the SD card while the "Processing..." message is on the screen after the cover of the SD card interface is opened.

6.7 File Manager

You can manipulate or sort the folders and files stored in each drive of the GOT.

Function	Description	Reference
Folder and file list	Displays the type, name, size, and updated date and time of each folder or file. The folders and files can be sorted in ascending or descending order.	6.7.2 Display operation of the file manager screen6.7.4 ■2. Sorting folders and files
Сору	Copies a folder or file .	6.7.4 ∎3. Copy
Move	Moves a folder or file.	6.7.4 ∎4. Move
New folder	Creates a folder.	6.7.4 ∎5. New folder
Delete	Deletes a folder or file.	6.7.4 ∎6. Delete
Rename	Renames a folder or file.	6.7.4 ∎7. Rename

6.7.1 Required system application (extended function)

The system application (extended function) for the file manager is required.

■1. System application (extended function)

Write the package data that contains the system application (extended function) for the file manager to the GOT. For the communication method with the GOT, refer to the following.

GT Designer3 (GOT2000) Screen Design Manual

■2. System application (extended function) size

To install a system application (extended function) to the GOT, enough space in the user area is required. For information on how to check the available space of the user area and each data size, refer to the following.

Im GT Designer3 (GOT2000) Screen Design Manual

ata management Ity min kenu X 17 Masic set Ect. func. set Maintenance Monitor Data are.		
Image file Becief Image file Operation Operation Operation Information		
Response Response Touch [File manager].	File manager	
7/2015 15:40:55	File manager	
	DRV A:\Package1	
	Type Name 🔺	Size Updated
		11/25/2015 15:25 11/25/2015
		11/25/2015 19:41
	L0600001 Dellog_20151002_1	30 12/2015
	Image: Control of the contro	Manipulate a file or 9/2014
	AAM00000.52A	folder. 9/2014 9/2014
P .	SNAP0001.BMP	1.4MB 15:05 1.4MB 11/16/2015 15:06
	SNAP0003.BMP	1.4MB 15:06 1.4MB 11/16/2015 15:06
	SNAP0004.BMP	1.4MB 15:06 1.4MB 11/16/2015 15:07
	SNAP0005.BMP	1.4MB 11/16/2015 1.4MB 15:07
	SNAPOOO6.BMP	1.4MB 11/16/2015
	Free space: 1.76B / Drive capacity: 1.96B	
		Copy Move New Delete Rename

6.7.3 Display example of the file manager screen

	(1)	I	(2)					
	File manage	r					×	
(3)—	DRV	A:\Package1						i i
	Туре	Name 🔺			Size	Updated		
		FOLDER				11/25/2 15:25	015	
		F0LDER2				11/25/2	015	1
		L0G00001				01/02/2	000	
		OPEL0G_20151002_1				10/22/2	015	
	GZA'	AAM00000.G2A			38.1KE	10/00/0	014	
(4)	GZA ()	AAM00001.G2A			264 E		014	
(4)—		SNAP0001.BMP			1.4ME	111/10/00		— (5)
		SNAP0002.BMP			1.4ME	11/10/0	015	
		SNAP0003.BMP			1.4ME	11/10/0	015	
		SNAP0004.BMP			1.4ME	11/16/2	015	
		SNAP0005.BMP			1.4ME	11/10/0	015	
		SNAP0006.BMP			1.4ME	11/16/2 15:08	015 🗸	
(6) —	Free space:	1.76B / Drive capacity: 1.96B						
(7)—			Сору	Move	New [folder [)elete	Rename	j

Number	Item	Description			
(1)	[DRV] button	Displays the [Select drive] screen to select a target drive.			
(2)	Drive and folder path display	Displays the path to the drive or folder that stores the currently listed folders or files. If the number of characters in the path exceeds the limit, only the characters within the limit are displayed.			
(3)	Move-to-parent folder button	loves to the parent folder.			
(4)	Check box	Select a checkbox to select a folder or file. To select all folders and files, select the top checkbox.			
	Туре	Displays the folder and file icons.			
(5)	Name	Displays the folder and file names. A long folder or file name does not wrap to the next line, and the portion of the name that lies off the display area is invisible. A folder or file is not listed in the following cases. • The full path to the folder or file contains 79 or more characters including delimiters (\). • The folder or file name starts with G2 or G1			
	Size	Displays the file size. This item is not displayed for folders.			
	Updated	Displays the updated date and time of folders and files.			
(6)	Drive information	Displays the information of the drive, folders, or files. The following information is displayed. • Available space and capacity of the selected drive • Number of selected folders and files, and their total size			
(7)	Operation buttons	Execute intended operations.			

■1. Data display operation

Step 1. Touch the [DRV] button to display the [Select drive] screen. Select a drive to list the data stored in the drive.

File	e managei				5	X
7	👌 DRV	A:\Package1				
	Туре	Name 🔺		Size	Updated	
		FOLDER			11/25/2015	
		FOLDER2			11/25/2015 19:41	
		L0900001			01/02/2000	
\checkmark		OPEL.06_20151002_1			10/22/2015 17:16	
	(12A)	AAM00000.G2A		38.1KB		
		AAM00001.G2A			10/29/2014	
		SNAP0001.BMP			11/16/2015 15:05	
		SNAP0002.BMP		1.4MB	11/16/2015 15:06	
		SNAP0003.BMP		1.4MB	11/16/2015 15:06	
		SNAP0004.BMP		1.4MB	115-07	
		SNAP0005.BMP		1.4MB		
		SNAP0006.BMP		1.4MB	11/16/2015 15:08	
Free	e space:	1.708 / Drive capacity: 1.968	2 files ar	e selected	(1.4MB in t	otal)
			Copy Move	New D folder	elete Rer	name

File display area

- Step 2. Double-touch a folder name to list the data stored in the folder.
- Step 3. Touch the move-to-parent folder button to list the data stored in the parent folder.
- Step 4. Scroll through the list by using the scroll bar or sliding the file display area.
- Step 5. Touch a checkbox to select a folder or file.
- Step 6. For the operation of the operation buttons, refer to the following.
 - **3**. Copy
 - ■4. Move
 - ■5. New folder
 - ■6. Delete
 - ∎7. Rename
- Step 7. Touch the [x] button to close the screen.

■2. Sorting folders and files

The folders and files can be sorted in ascending or descending order. The mark \blacktriangle or \triangledown is displayed in the header of the column by which the list is sorted. The following shows the applicable column headers.

- Type • Name
- · Size
- · Updated

Example) When sorting the folders and files alphabetically

Step 1. Touch the [Name] header to sort the folders and files alphabetically in ascending order.



Step 2. Touch the [Name] header again to sort them alphabetically in descending order.

■3. Copy

A selected folder or file is copied.

Step 1. Touch a checkbox to select a folder or file.

👇 DRV	A:\Package1					
Туре	Name 🔺	_	_	Size	Updated	
	FOLDER				11/25/2	015
	FOLDER2				11/25/2	⁰¹⁵
	L0600001				01/02/2	000
	0PEL0G_20151002_1				10/22/2	
	AAM00000.G2A			38.1KB	10/00/0	014
	AAM00001.G2A			264 B	10/29/2	014
	SNAP0001.BMP			1.4MB	11/16/2	015
	SNAP0002.BMP			1.4MB	11/16/2	015
	SNAP0003.BMP			1.4MB	11/10/0	015
	SNAP0004.BMP			1.4MB	11/16/2	015
1	SNAP0005.BMP			1.4MB	11/16/2	015
	SNAP0006.BMP			1.4MB	11/10/0	015
e space	1.768 / Drive capacity: 1.968		l files are	selected		in tot
		Сору	Move	New D	elete	Renar

Step 2. Touch the [Copy] button to copy the selected folder or file, switching the display of the operation buttons and the drive information contents.

File	e manage	r		2	8
	• DRV	A:\Package1			
	Туре	Name 🔺	Size	Updated	
		FOLDER		11/25/2015 15:25	
		FOLDER2		11/25/2015	
		L0600001		01/02/2000	
		0PEL06_20151002_1		10/22/2015	
		AAM00000.G2A	38.1KE	10/29/2014	
	•	AAM00001.62A	264 E	10/29/2014	
		SNAP0001.BMP	1.4ME	11/16/2015 15:05	
		SNAP0002.BMP	1.4ME		
		SNAP0003.BMP	1.4ME	11/10/0015	
		SNAP0004.BMP	1.4ME	11/10/0015	
		SNAP0005.BMP	1.4ME	11/16/2015	
	\mathbf{N}	SNAP0006.BMP	1.4ME	11/16/2015 15:08	\mathbf{T}
Plea	ise selea	t destination. 1 files are	selected	(1.4MB in t	otal)
		f	New older	OK Car	ncel

- Step 3. Touch a copy destination folder. You cannot paste the selected folder or file in the same folder. Select a different folder to store.
- Step 4. Touch the [OK] button to display a confirmation dialog.
- *Step 5.* Touch the [OK] button to start the copy. To cancel the copy, touch the [Cancel] button.

Check	
Selected 1 files will be copied. Do you want to proceed?	
OK Cancel	

Step 6. If the copy destination folder has a folder or file with the same name, the overwrite confirmation dialog appears.

To overwrite the folder or file with the same name, touch the [YES] button. To not to copy the folder or file, touch the [NO] button. To cancel the copy, touch the [Cancel] button.

Check
This folder contains the item SNAP0005.BMP. Do you want to replace the existing item Modified:11/16/2015 15:07 with this one? Modified:10/02/2014 11:12
YES NO Cancel

Step 7. If the copy destination folder has multiple folders or files with the same name, another confirmation dialog appears.

To perform the same process for the rest of folders or files, touch the [YES] button.

To display the overwrite confirmation dialog for the next folder or file, touch the [NO] button.

Check
The same error/warning dialog will no longer appear. Do you want to proceed?
YES NO

Step 8. Upon completion of the copy process, the confirmation dialog appears saying the numbers of successes and failures.

Touch the [OK] button to close the confirmation dialog.

Processing results
Completed the process.
Succeeded: 1 Failed: 0
OK

■4. Move

A selected folder or file is moved.

Step 1. Touch a checkbox to select a folder or file.

DRV	/ A:\Package1			
Туре	Name 🔺	 _	Size	Updated
	FOLDER			11/25/2015
	FOLDER2			11/25/2015
	L0600001			01/02/2000
	0PEL0G_20151002_1			10/22/2015
	AAM00000.G2A		38.1KB	10/29/2014
	AAM00001.G2A		264 B	10/29/2014
	SNAP0001.BMP		1.4MB	11/16/2015
	SNAP0002.BMP		1.4MB	11/10/0015
	SNAP0003.BMP		1.4MB	
	SNAP0004.BMP		1.4MB	
]	SNAP0005.BMP		1.4MB	11/16/2015
	SNAP0006.BMP		1.4MB	11/16/2015 15:08
e space	: 1.768 / Drive capacity: 1.968	1 files ar	e selected	(1.4MB in t

Step 2. Touch the [Move] button to move the selected folder or file, switching the display of the operation buttons and the drive information contents.

File manage	r			×			
🔄 DRV	A:\Package1						
Туре	Name 🔺	Size	Updated				
	FOLDER		11/25/201	5			
	FOLDER2		11/25/201	5			
	L0600001		01/02/200	0			
	OPEL0G_20151002_1		10/22/201	5			
	AAM00000.G2A	38.1K	B 10/29/201- 22:59	4			
(1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	AAM00001.G2A	264	B 10/29/201	4			
	SNAP0001.BMP	1.4M	B 11/16/2019 15:05	5			
	SNAP0002.BMP	1.4M		5			
	SNAP0003.BMP	1.4M	11/10/001	5			
	SNAP0004.BMP	1.4M	11/10/001	5			
	SNAP0005.BMP	1.4M	11/10/001	5			
	SNAP0006.BMP	1.4M	111100000	5			
Please select destination. 1 files are selected (1.4MB in total)							
		New folder	ок с	ancel			

- Step 3. Touch a move destination folder.
- Step 4. Touch the [OK] button to display a confirmation dialog.
- Step 5.Touch the [OK] button to start the move.To cancel the move, touch the [Cancel] button.

Check							
Selected 1 files will be moved. Do you want to proceed?							
ОК	Cancel						

Step 6. If the move destination folder has a folder or file with the same name, the overwrite confirmation dialog appears.

To overwrite the folder or file with the same name, touch the [YES] button. To not to move the folder or file, touch the [NO] button. To cancel the move, touch the [Cancel] button.

Check
This folder contains the item SNAP0005.BMP. Do you want to replace the existing item Modified:11/16/2015 15:07 with this one? Modified:10/02/2014 11:12
YES NO Cancel

Step 7. If the move destination folder has multiple folders or files with the same name, another confirmation dialog appears.

To perform the same process for the rest of folders or files, touch the [YES] button. To display the overwrite confirmation dialog for the next folder or file, touch the [NO] button.

Check							
The same error/warning dialog will no longer appear. Do you want to proceed?							
YES NO							

Step 8. Upon completion of the move process, the confirmation dialog appears saying the numbers of successes and failures.

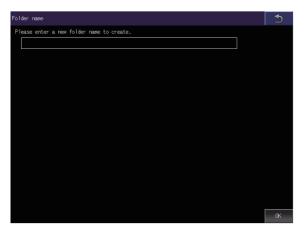
Touch the [OK] button to close the confirmation dialog.

Processing results
Completed the process. Succeeded: 1 Failed: O
ОК

■5. New folder

A folder is created.

Step 1. Touch the [New folder] button to display the [Folder name] screen.



Step 2. Touch the text box to display the key window.

									×
									_
a-z									
0–9	Α	В	C	D	Ε	F	G	∎	
@	Η	I	J	К	L	M	Ν	AC	A DEL
	0	Р	Q	R	S	Т	U	\blacksquare	▼►
	V	₩	Х	Y	Ζ	-	,	SP	Enter

- Step 3. Enter a folder name with the key window. To change the character type, touch any of the following buttons.
 [A-Z]: Uppercase alphabet
 [a-z]: Lowercase alphabet
 [@]: Symbols
 [0-9]: Numeric characters, A to F
- *Step 4.* Touch the [Enter] button to confirm the entry.
- *Step 5.* Touch the [OK] button to create the folder.

Folder name	≤
Please enter a new folder name to create.	
FOLDER	
	ОК

6 - 94

■6. Delete

A selected folder or file is deleted.

Step 1. Touch a checkbox to select a folder or file.

DRV	/ A:\Package1			
Туре	Name 🔺		Size	Updated
	FOLDER			11/25/2015 15:25
	FOLDER2			11/25/2015 19:41
	L0600001			01/02/2000
	0PEL06_20151002_1			10/22/2015
	AAM00000.G2A		38.1KB	10/29/2014
	AAM00001.G2A		264 B	10/29/2014
	SNAP0001.BMP		1.4MB	11/16/2015
	SNAP0002.BMP		1.4MB	
	SNAP0003.BMP		1.4MB	
	SNAP0004.BMP		1.4MB	
	SNAP0005.BMP		1.4MB	
	SNAP0006.BMP		1.4MB	11/16/2015 15:08
e space		1 files are	selected	(1.4MR in t

- *Step 2.* Touch the [Delete] button to display a confirmation dialog.
- Step 3.Touch the [OK] button to start the deletion.To cancel the deletion, touch the [Cancel] button.

Check				
1 items will be deleted. Do you want to proceed?				
OK	Cance1			

Step 4. Upon completion of the delete process, the confirmation dialog appears saying the numbers of successes and failures.

Touch the [OK] button to close the confirmation dialog.

Processing results					
Completed the process. Succeeded: 1 Failed: O					
ОК					

■7. Rename

A selected folder or file is renamed.

Step 1. Touch a checkbox to select a folder or file.

File manager						
📄 DRV	A:\Package1					
Туре	Name 🔺			Size	Update	ł
	FOLDER				11/25/2	2015
	FOLDER2				11/25/2	2015
	L0600001				01/02/3	2000
	0PEL06_20151002_1				10/22/2	2015
- 	AAM00000.G2A	38.1				
	AAM00001.G2A	264	B 10/29/2	2014		
	SNAP0001.BMP	1.4	NB 11/16/2	2015		
	SNAP0002.BMP	1.4	MB 11/16/3	2015		
	SNAP0003.BMP	1.4	MB 11/16/2	2015		
	SNAP0004.BMP	1.4	MB 11/16/2 15:07	2015		
	SNAP0006.BMP	1.4	ив 11/16/3 15:08	2015 🗸		
Free space:	1.768 / Drive capacity: 1.968		1 files a	are selecte		in total
		Сору	Move	New folder	Delete	Rename

Step 2. Touch the [Rename] button to display the [Folder name] screen or the [File name] screen.

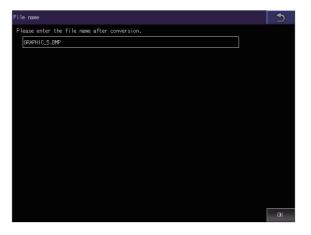
File name	_						
Please enter the file name after conversion.							
SNAP0005.BMP							
	OK						

Step 3. Touch the text box to display the key window.

										×
a-z										
0–9	A	В	C	D	Ε	F	G			
@	Н	Ι	J	К	L	M	N	AC		DEL
	0	Р	Q	R	S	Т	U		▼	
	۷	₩	Х	Y	Ζ	-	,	SP	En	ter

- Step 4. Enter a new name with the key window. To change the character type, touch any of the following buttons.
 [A-Z]: Uppercase alphabet
 [a-z]: Lowercase alphabet
 [@]: Symbols
 [0-9]: Numeric characters, A to F
- Step 5. Touch the [Enter] button to confirm the entry.

Step 6. Touch the [OK] button to rename the folder or file.



6.7.5 Precautions

■1. When creating or deleting folders or files

(1) Number of characters in the folder or file name

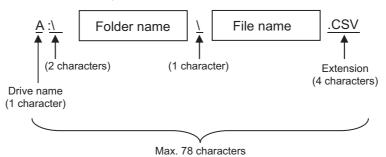
GOT recognizes file location according to path explained below.

Specify folder or file name, and total characters of path cannot exceed 78 characters.

Users only can rename folder or file name.

(Other than folder/file name is automatically printed.)

Example: CSV file path in a data storage



POINT

If folder is assigned the hierarchy.

The $\$ mark is displayed between a folder name and folder name, a folder name and file name. The $\$ mark is also counted as one character.

(2) Character strings that cannot be set to a folder/file

The following character strings cannot be used as a folder name or a file name. Even small characters of those cannot be used.

COM1 to COM9, LPT1 to LPT9, AUX, CON, NUL, PRN, CLOCK\$

In addition, the folder/file name showed below cannot be used.

- Folder and file names starting with G2 or G1
- Folder and file names starting with a period (.)
- Folder and file names ending with a period (.)

(3) Unavailable characters in the folder name

One-byte spaces and the following characters cannot be used in a folder name. / \ ? * : ? " < >

(4) For deleting the folder

The deletion of a folder is executed even if another function is using a file in the folder. If such a file is deleted, the function that is using the file may not operate properly. Do not delete a folder that is set for another function.

(5) Available character codes

Although characters other than one-byte alphanumeric characters (ASCII) can be entered for a folder or file name, the characters become garbled when the file name is displayed in the file list of the utility screen. To manipulate folders or files on the utility screen, use one-byte alphanumeric characters (ASCII) for folder and file names.

2. Precautions for operation

(1) Precautions during folder/file operation (Create/Delete/Copy/File output, etc)

Even if the cover of the SD card interface is opened while the GOT is processing folders and files, the processing continues to be executed.

Therefore, do not pull out the SD card while the "Processing..." message is on the screen after the cover of the SD card interface is opened.

(2) While the GOT is accessing another file (such as alarm data)

If you manipulate a folder or file while the GOT is accessing another file, the GOT completes the current process and then executes the manipulation process.

In such a case, the manipulation process may take a longer time than usual.

(3) Copying or moving a folder

When a folder is copied or moved to another folder with the same name, if the folders contain a file with the same name, the file in the destination folder is automatically replaced.

(4) Changing a folder or file name

You cannot change only the case of the characters in a folder or file name. Example)

Before change	L.	After change
JANUARY		january
january		JANUARY
january		January

To change only the case of the characters in a folder or file name, rename the folder or file to a different name, and then rename the folder or file back to its original name with the case changed.

(5) Maximum number of folders and files displayable in the list

Up to 2000 folders and files stored in the same path are displayable in the list.

If the number of folders and files stored in the same path is 2001 or more, the overflow folders and files are not displayed.

You cannot select or sort the overflow folders and files.

To display all folders and files stored in the same path, reduce the number of folders and files to 2000 or less by deleting unnecessary folders or files, storing folders or files to a different folder, or other methods.

(6) Copying or moving a file to a folder in which a read-only file with the same name is stored A read-only file cannot be overwritten.

To copy or move a file to a folder in which a read-only file with the same name is stored, rename the source file before copying or moving it to the folder.

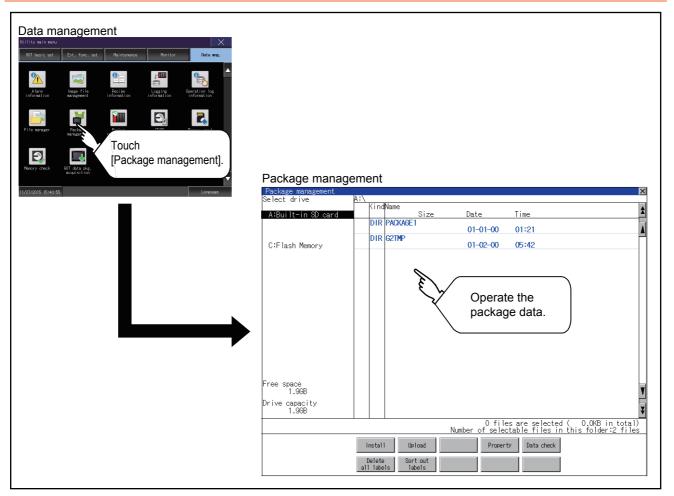
6.8.1 Function of package data management

The package data held by each drive (A: Built-in SD card, B: USB drive, C: built-in flash memory, E: USB drive, F: USB drive, G: USB drive) is displayed.

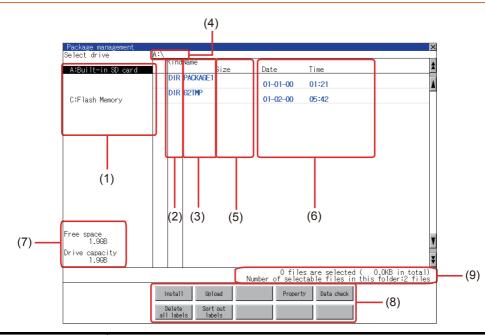
The following operations can be performed.

Function	Description	Reference
Install	All package data written in drive A (Built-in SD card), drive B (USB drive), drive E (USB drive), drive F (USB drive), and drive G (USB drive) can be installed in drive C (Built-in flash memory).	2. Installation operation
Upload	All package data written in drive C (Built-in flash memory) can be uploaded to drive A (Built-in SD card), drive B (USB drive), drive E (USB drive), drive F (USB drive), and drive G (USB drive).	■ 3. Upload operation
Property	The versions of system applications and communication drivers, and other information can be checked.	4 . Property operation
Data check	The contents of package data can be checked.	5 . Data check operation
Delete all labels	All pieces of label name resolution information can be deleted.	■ 6. Delete all labels operation
Sort out labels	Unused label name resolution information can be deleted.	■ 7. Sort out labels operation

6.8.2 Display operation of package data management



6.8.3 Display example of package data management



Numb er	Item	Description
(1)	Select drive	The drive which displays file or folder can be selected. When an SD card is not installed, [A:Built-in SD card] is not displayed. When a USB memory is not installed, [B:USB drive], [E:USB drive], [F:USB drive], and [G:USB drive] are not displayed.
(2)	Kind	Indicates whether the displayed name is file or folder. Displays the extension for a file and "DIR" for a folder.
(3)	Name	The file name or folder name which is stored in the selected drive or folder is displayed. When the file name or folder name exceeds 20 characters, the exceeding characters (the 21th character or after) are not displayed.
(4)	Path name	Displays the path name of drive /folder which is currently displayed.
(5)	Size	Displays the size of the file displayed in Name.
(6)	Date and time	Displays the creation date and time of each file.
(7)	The size of drive	Displays the size in use and the entire size of the drive which is selected by drive selection. (Only the size in use is displayed when selecting the C drive.)
(8)	Operation switch	Execution switch of each function.
(9)	Number of folders and files	Displays the total number of the displayed files and folders.

6.8.4 Operation of package data management

■1. Display operation of package data

Step 1. If touch a drive in [Select drive], the information of the first folder of the touched drive is displayed.

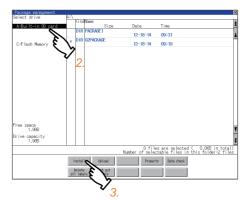
Package management					×
Select drive	A:\				
	Kind	Name			\$
A:Built-in SD card	0.10	Size	Date	Time	-
	DIR	PACKAGE1	01-01-00	01:21	
	DIR	62TMP	01 01 00	01121	-
C:Flash Memory		02.00	01-02-00	05:42	
-					
Free space					
1.9GB					T.
Drive capacity					
1.96B					¥
			0.4:1.		-
			Number of select	s are selected (0.0KB in total) table files in this folder:2 files	
					1
	Install	Upload	Property	/ Data check	
	Delete all labe				
	all labe	Tabets			

- Step 2. If touch a folder name, the information of the touched folder is displayed.
- Step 3. If touch a folder of ". .", the information of the folder of the one upper hierarchy is displayed.
- Step 4. If touch the ▲ ▼ button of the scrollbar, the screen scrolls up/down by one line.
 If touch the ▲ ▼ button, the screen scrolls up/down by one screen.
- Step 5. If touch a file name, the touched file name is selected and inverted.
- Step 6. For the operation of installation, upload, data check, and global labels, refer to the following.Installation
 - 2. Installation operation
 - Upload
 - 3. Upload operation
 - Property
 - ➡ ■4. Property operation
 - Data check
 - ➡ 5. Data check operation
 - · Delete all labels
 - ➡ ■6. Delete all labels operation
 - · Sort out labels
 - ➡ 7. Sort out labels operation
- Step 7. If touch the [×] button, the screen is closed.

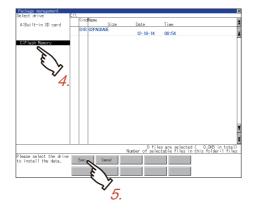
2. Installation operation

BootOS and OS which are written in drive A (Built-in SD card), drive B (USB drive), drive E (USB drive), drive F (USB drive), and drive G (USB drive) can be installed in GOT. (The following procedure uses drive A as an example.)

- *Step 1.* Install the data storage to which package data to be installed is written to the GOT. For installation/removal procedure of data storages, refer to the following.
 - 🗯 GOT2000 Series User's Manual (Hardware)
- Step 2. Touch [A:Built-in SD card] in the drive selection.



- Step 3. Touch the [Install] button.
- *Step 4.* Touch the installation destination drive.



- Step 5. Touch the [Exec.] button.
- Step 6.In the dialog shown below, touch the [OK] button to start the installation.To cancel the installation, touch the [Cancel] button.

Do you want to exec Installation source Installation destin	
0 K	Cancel

Step 7. If the installation destination drive has package data with the same name, the dialog shown below appears. To delete the package data from the installation destination drive and then start the installation, touch the [OK] button.

To cancel the installation, touch the [Cancel] button.

Do you want to inst after deleting the destination drive? Installation source Installation destin	one in the
0 K	Cancel

Step 8. When the installation completes, the dialog shown below appears. Touch the [OK] button to restart the GOT.

Installation has been completed.
0 К

6

■3. Upload operation

Package data written in drive C (Built-in flash memory) can be uploaded to drive A (Built-in SD card), drive B (USB drive), drive E (USB drive), drive F (USB drive), and drive G (USB drive).

The data storage after uploading can be used for installing the package data on another GOT.

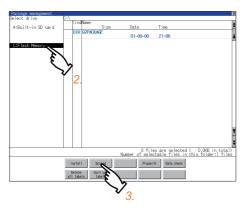
➡ 7. INSTALLATION OF BOOTOS AND BASIC SYSTEM APPLICATION

(The following procedure uses drive A as an example.)

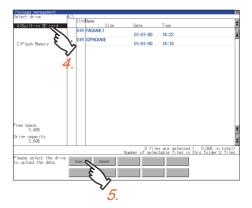
Step 1. Install the data storage used as the uploading destination to the GOT. For installation/removal procedure of data storages, refer to the following.

GOT2000 Series User's Manual (Hardware)

Step 2. Touch the upload source drive ([C:Flash Memory]) in [Select drive].



- Step 3. Touch the [Upload] button.
- Step 4. Touch the upload destination drive.



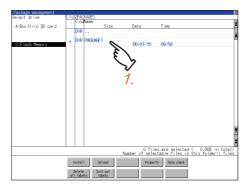
- Step 5. Touch the [Exec.] button to start uploading the package.
- *Step 6.* When the upload is completed, the dialog box shown below is displayed. Touch the [OK] button to close the dialog.



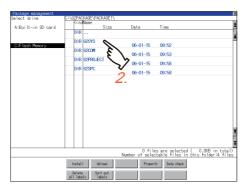
■4. Property operation

The versions of system applications and communication drivers, and other information can be checked.

Step 1. Open a target package folder in the [G2PACKAGE] folder.



- Step 2. Open one of the following folders.
 - · [G2SYS] folder
 - System applications (standard functions) and system applications (extended functions) are stored.
 - [G2COM] folder Communication drivers are stored.
 - [G2PROJECT] folder Project data are stored.
 - [G2SPC] folder
 - Special data are stored.



Step 3. Touch the [Property] button to display the properties of the files in the folder.

Network Dift Vectorie 620 020498A522 4.808 06-01-15 00:46 UCT 020498A522 2.108 06-01-15 00:46 UCT 020498A522 2.108 06-01-15 00:47 UCD 020499A522 2.108 06-01-15 09:47 UCD 020499A52 2.408 06-01-15 09:48 UCD 02549H1L 3.88 06-01-15 09:48 UCD 02549H0.5% 5.98 06-01-15 09:48 UCD 02549H0.6% 5.98 06-01-15 09:48 UCD 02549H0.6% 1.76 06-01-15 09:48	uilt-in SD card	Kind	Name Size	Date	Tine
Venory Col Col<	unic-in ab card	DIR		Date	THE
C2 C26/PE42E2 2.1/8 06-01-15 09:46 UUT C26/PE42E2 2.1/8 06-01-15 09:47 C2 C26/PE42E2 2.4/8 06-01-15 09:44 C3 C26/PE42E2 5.8/8 06-01-15 09:44 C4 C26/PE42E2 1.7/8 06-01-15 09:44 C4 C276916.4E 1.7/8 06-01-15 09:44 C4 C476916.4E 1.7/8 06-01-15 09:44 C41 C476916.4E 1.7/8 06-0	lash Memory	62D	G2SAPBASE2	06-01-15	09:46
0/07 62549645 2.1HE 06-01-15 09:47 020 62549645 2.4HE 06-01-15 09:47 020 62549645 2.4HE 06-01-15 09:47 020 62549645 2.4HE 06-01-15 09:47 020 62549701 49:86 06-01-15 09:44 020 62549701 49:86 06-01-15 09:44 020 62549701 49:88 06-01-15 09:44 020 62549701 50:98 06-01-15 09:48 04 6256970.6E 50:98 06-01-15 09:48 04 6256970.6E 10:98 06-01-15 09:48 04 6256970.6E 09:49 01:48 01:48 04 6256970.6E 09:49 01:48 01:48 04 6256970.6E 09:49 01:48 01:48 04 70 11:58 37:59 37:18 Number of particitable if fites in thits folder in thits <td< td=""><td>an neilory</td><td>62</td><td>62SAPBASE2</td><td></td><td></td></td<>	an neilory	62	62SAPBASE2		
Col (courses): 2,448 06-01-15 09:47 Col (courses): 143,988 06-01-15 09:47 Urf (course): 16,988 06-01-15 09:43 Edit (course): 16,988 06-01-15 09:44 Edit (course): 5,988 06-01-15 09:48 Edit (course): 5,108 06-01-15 09:48 Edit (course): 5,118 06-01-15 09:49 Edit (course): 5,018 06-01-15 09:49 Edit (course): 5,018 116:16:11:16:11:16:11:16:11:16:11:16:11:16:11:16:11:16:11:16:11:16:11:16:11:16:11:16:11:16:11:16:11:16:11:16:11:16:11:16		TUD	62SAPBASE		
R2 R23449642 143.982 06-01-15 09:47 UT R234471L 349.186 06-01-15 09:48 R25 R234471L 0.386 06-01-15 09:48 R25 R234471L 0.386 06-01-15 09:48 R26 R25476L 0.386 06-01-15 09:48 R26 R25476L 0.386 06-01-15 09:48 R26 R25476L 1.786 06-01-15 09:48 R26 R27476L 0.286 06-01-15 09:48 R26 R27476L 0.286 06-01-15 09:48 R26 R27476L R26 06-01-15 09:48 R26 R276 R26 06-01-15 09:48		G2D	R2SAPRASE		
OF 2254/UTL 349, 116 06-01-15 09-48 S2D S2SHUTL 0.38 06-01-15 09-48 S2D S2SHUTL 5,98 06-01-15 09-48 F0A S2SHUTL 5,98 06-01-15 09-48 F0A S2SHUTL 5,98 06-01-15 09-48 F0A S2SHUTL 1,796 06-01-15 09-48 F0A S2SHEFL 1,796 06-01-15 09-48 <tr< td=""><td></td><td>62</td><td>62SAPBASE</td><td></td><td></td></tr<>		62	62SAPBASE		
ED EC344711 0.38 06-01-15 00-48 E2 EC34711 5.388 06-01-15 00-48 F04 EC349471 5.398 06-01-15 00-48 F04 EC349471 0.08 06-01-15 00-48 F04 EC34916 501.08 06-01-15 00-48 F04 EC34916 501.08 06-01-15 00-48 F04 EC34916 501.08 06-01-15 00-48 F04 EC34916 60-01-15 00-48 10-16 F04 EC34916 60-01-15 00-48 10-16 F04 EC34916 60-01-15 00-48 10-16 F04 EC34916 F0-01-15 00-48 10-16 <td></td> <td>OUT</td> <td>62SAPLIT II</td> <td></td> <td></td>		OUT	62SAPLIT II		
22 2234/U1L F0A 6275901.6.5,598 60-01-15 50:48 F0A 6275901.6.5,500.588 60-01-15 50:48 F0A 6275901.6.5,500.588 60-01-15 50:48 F0A 6275901.6.5,500.588 60-01-15 50:48 F0A 6275901.6.5,100 60-01-15 50:48 F0A 6276911.6.1,100 60-01-15 50:48 F0A 6276911.6.1,100 60-01-15 50:48 F0A 6276911.6.1,100 60-01-15 50:48 F0A 6276911.6.1,100 70:49 Files in this folder: 58 Tile F0A 6276911.6.1,100 70:49 Files in this folder: 58 Tile F0A F0A F0A F0A F0A F0A F0A F0A F		620	62SAPUT II		
FOM (ECTSONE), E.E. 02:48 FOM (CCTSOLES), 00:48 00-11-15 02:48 FOM (CCTSOLES), 00:80 00-11-15 02:48 FOM (CCTSOLES), 00:80 00-11-15 02:48 FOM (CCTSOLES), 00:40 00-11-15 02:48 FOM (CCTSOLES), 00		62	62SAPUTU		
FON (6753601.64, 531.046 06-01-15 06-48 UT 02595040 1.706 06-01-15 06-46 FON (6270616.42, 101.046 06-01-15 06-46 1.706 1.706 Matter of selected field			G2FSBM16JE		
001 [2354539 1,7%6 06-01-15 09:48 F04 [2670946.6,E]161,368 06-01-15 09:49 Number of selectable files in this folder:38 file Number of selectable files in this folder:38 file Install Ublad Proceedings (Data dack		FON	G2FSBG16JE		
Fox lostcome.E. (61, 288 00-01-15 00:40 Number of falles are perfected (0,005 in total Number of selectad (0,005 in total restall lations perfect soft out total of the selection of t		OUT	G2SPEGPU		
0 files are selected (0.068 in tota Number of selectable files in this folder:38 file Install Ubload Proc Data deak Delete Set out		FON	G2EOBM16, JE		
Install Upload Prover Data check Delete Sort out				0 fil	es are selected (0.0KB in tota)
Delete Sort out				1	
all labels				Proper	Data check
		Delete all label	s labels		23

Step 4. Check the properties.

For the [G2SYS] folder, the properties of system applications are displayed. For the [G2COM] folder, the properties of communication drivers are displayed.

- [File Name]:
 - Displays the file names.
- [Size]:

Displays the file size.

• [Kind]:

Displays the file types. [Basic]: System application (standard function) [Extend]: System application (extended function) [Comm.]: Communication driver

- [Version]:
 - Displays the file versions.
- [Date Time]: Displays the date and time of the file creation.

1	Property:System .						P
	ile Name	Size	Kind	Version	Date	Time	
	System Applicat						
	G2SAPBASE2.G2D	10.0KB		01.12.000.D005	05-20-15	20:02	
	Standard System		nformati	on			
	32SAPBASE2.02	1.5MB		01.12.000.D005	05-20-15	20:02	
	Standard System	Application D	ata				
	G2SAPBASE.OUT	2.4MB	Basic	01.12.000.D005	05-21-15	12:37	
	Standard System	Application					
	G2SAPBASE.G2D			01.12.000.D003	05-08-15	15:39	
	Standard System	Application	nformati	on			
	32SAPBASE.62			01.12.000.D003	05-08-15	15:39	
	Standard System	Application D					
	32SAPUTIL.OUT			01.12.000.D005	05-21-15	12:37	
	Standard System			04 04 000 D004	07.40.40	44.000	
	G2SAPUTIL.G2D	20.0KB		01.04.000.R001	07-13-13	11:57	
	Standard System		nformati	onlUtility			
	G2SAPUTIL.G2	200.0KB	basic	01.04.000.R001	07-13-13	11:57	
	Standard System	Application U	ataiuții	(ty)	00.11.10	10.05	
	32FSBM16JE.FON 16dot Standard I	570.0KB	Basic	01.03.010.R001	03-11-13	18:35	
		11 ncno Font (Ja 540.0KB	panese)	01.03.010.R001	03-11-13	10.05	
	32FSB616JE.FON 16dot Standard I			01.03.010.R001	03-11-13	19:35	
	S2SPEGPU.OUT	2.0MB	panese)	01.03.010.R001	01-22-14	00.00	
	Graphic acceler:		Extend	01.05.010.R001	01-22-14	09-00	
	S2F06M16.JE.FON	170.0KB	Entern	01.10.000.R001	03-05-15	11-20	
	16dot Standard I	T70.0ND	- Excelle	01.10.000.0001	03-05-15	11+30	
	S2F0BG16JE_FON	160.0KB	Extone	01.03.010.R001	03-11-13	10.35	
	16dot Standard I				00 11 10	10100	
	R2E0EN12. E.EON	140_0KB	Evtone	01.03.010.R001	03-11-13	10:25	
	12dot Standard I	Evtended Gothi	e Eontí	lananasa)	00-11-10	10.35	
	S2F06M16GE_F0N	180.0KB		01.03.010.R001	03-11-13	10:35	
				hinese Simplified)	00 11 10	10-05	
	S2F0BN12GE_F0N	140.0KB		01.03.010.R001	03-11-13	19:35	
		Extended Gothi	e Eont (f	hinese Simplified)	00 11 10		- k
	S2E0BG16BE_E0N	280.0KB		01.03.010.R001	03-11-13	19:35	
		Extended Gothi	c Eont (C	hinese Traditional)			

Property displayed for the [G2SYS] folder

For the [G2PROJECT] folder, the project property and the screen numbers used in the project are displayed.

The project property includes the following information.

- [Date]:
 - Creation date of the project data
- [Author]:
 - Creator of the project data
- [GT Designer3 Version]:

Version of GT Designer3 (GOT2000) from which the project data is written

- [System version]:
 - GOT system version

Property:Project_data	8
	Author: MEE
BT Designer3 Version:1 1340	System version:01.12.000
Date:06-05-15 BT Designer3 Version:1.1340 B-1 Base screen 1 B-2 Base screen 2	
B-2 Base screen 2	
15-3 base screen 3	
₩-1 Overlap window 1	
W-2 Overlap window 2	
₩-3 Superimpose window 1	
1	
1	
1	i i i i i i i i i i i i i i i i i i i

Property displayed for the [G2PROJECT] folder

For the [G2SPC] folder, the project property and the special data are displayed. The project property includes the following information.

- [Date]:
 - Creation date of the project data
- [Author]:
- Creator of the project data
- [GT Designer3 Version]:

Version of GT Designer3 (GOT2000) from which the project data is written

	y:Special data	×
Date:06-		
	ner3 Version:1.1340	
B-400	068ADV/068AD1/064AD 動作モニタ	*
B-401	068ADV/068AD1/064AD 入出力モニタ	4
B-402	Q68ADV/068AD1/064AD 7"57E57	
B-403	G62DA/064DA 動作モニク	
B-404	062DA/064DA 入出力E=9	
B-405	062DA/064DA 2^37E17	
B-406	QD62D/QD62E/QD62 動作年5月	
B-407	QD62D/QD62E/QD62 入出力モニタ	
B-408	GD75P/0075D 運動モニッ	
B-409	00759/00750 天田ナモニタ	
B-410	CD75P/CD75D 基本が「ラメーウ1	
B-411	0075年/00750 基本が今かーセ2 0075年/00750 時期パラルー1-1 0075年/00750 時期パラルー91-1	
B-412	GD75F/GD75D 詳細パラメータ1-1	
B-413	GD75P/GD75D 詳細パラメータ1-2	
B-414	0D75P/0D75D #\$##^~5x-52-1	
B-415	GD75P/0D75D 詳細かッパータ2-2	
B-416	0075P/0075D 原点復帰用詳細パラメータ	
B-417	0075P/0075D 原点復帰用基本パラメーケ	
B-418	0075P/0075D 外部入出力〒ステータス	
B-419	GD75P/GD75D 軸E=ター1	
B-420	GD75P/GD75D 輸モ=9-2	
B-421	GD75F/GD75D 原点復帰	
B-422	GD75F/GD75D 速度・位置制御	
B-423	GD75F/0D75D 位置・速度制御	
B-424	GD75P/0D75D 輪利御? -9-1	
B-425	GD75P/GD75D 輻射的データー2	
B-426	GD75P/0075D 輪射御尹~~~3	
B-427	GD75P/GD75D 帕制油F	
B-428	GD75P/GD75D 培動履歴	
B-429	GD75P/GD75D 15-,9-127 雕歴	
B-430	0075P/0075D 位置決め情報EE9	
B-431	0D75M 運転モニタ	*
B-432	GD75M 天出力E19	M
B-433	0075州 基本が 5メ-91	¥

Property displayed for the [G2SPC] folder

■ 5. Data check operation

The contents of the selected package data are checked.

Step 1. Touch the [Data check] button after selecting the package data for data check. The data check is executed and the result is displayed by the dialog box shown below.

Dialog	at data check normal
Data	normal.
	0 К
Dialog	at data check abnormal
	at data check abnormal error .

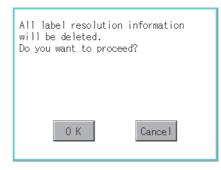
Step 2. To close the dialog box, touch the [OK] button.

■6. Delete all labels operation

All pieces of label name resolution information are deleted. For the details of the label name resolution information, refer to the following.

GT Designer3 (GOT2000) Screen Design Manual

Step 1. Touch the [Delete all labels] button to display the dialog shown below.



Step 2. To delete all pieces of label name resolution information, touch the [OK] button. To cancel the deletion and close the dialog, touch the [Cancel] button.

Process comp	leted.	
	0 K	

■7. Sort out labels operation

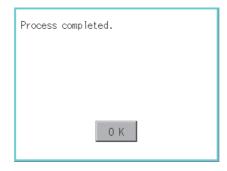
Unused label name resolution information is deleted. For the details of the label name resolution information, refer to the following.

GT Designer3 (GOT2000) Screen Design Manual

Step 1. Touch the [Sort out labels] button to display the dialog shown below.

Unused label resolution information will be deleted. Do you want to proceed?
0 K Cancel

Step 2.To delete unused label name resolution information, touch the [OK] button.To cancel the deletion and close the dialog, touch the [Cancel] button.



6.8.5 Precautions

■1. Precautions for upload operations

When the project in drive C is protected with a security key, uploading data from drive C to the other drives is not available.

For the details of the security key, refer to the following.

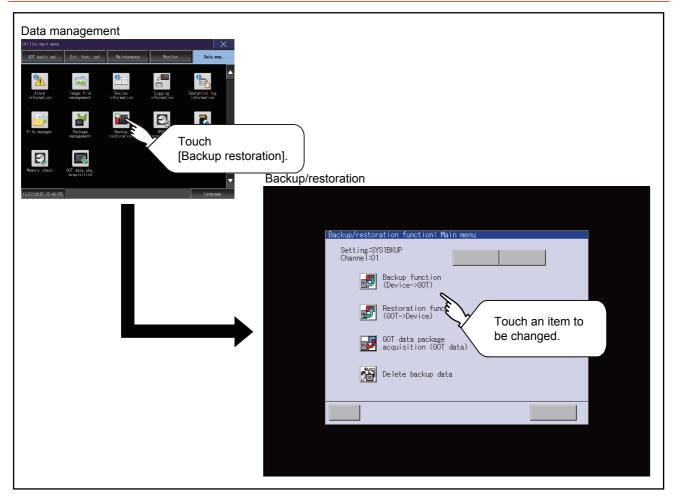
GT Designer3 (GOT2000) Screen Design Manual

6.9.1 Backup/restore function

Executing backups, executing restorations, and deleting backup data are possible. For the details of the backup/restoration function, refer to the following.

GOT2000 Series User's Manual (Monitor)

6.9.2 Display operation of backup/restoration



6.9.3 Operation of backup/restoration

Backup/restore data from the controller to GOT, or erase backup data with the backup/restoration. GOT data package acquisition is also possible.

For the details of the backup/restoration function, refer to the following.

GOT2000 Series User's Manual (Monitor)

6.10.1 Function of SRAM management

The SRAM user area usage can be confirmed, data in the SRAM user area can be backed up or restored, and the SRAM user area is initialiized.

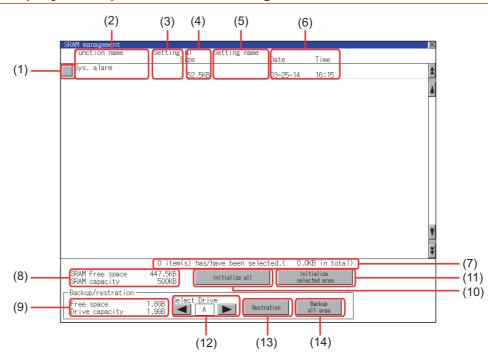
For the available functions in the SRAM user area, refer to the following.

Image: GT Designer3 (GOT2000) Screen Design Manual

6.10.2 Display operation of SRAM management

Data management Utility min eenu 007 basic set Ett. func. set Naintenance Monitor Data wer.					
Image Image <th< th=""><td></td><td></td><td></td><td></td><td></td></th<>					
Filemmager Picture relation	agement].				
Memory check 00T data pla. acquisition	SRAM manage	ement			X
11/27/2015 15:40:55 Language	Function name	Setting ID Setting name Size	Date	Time	
	Sys. alarm	52.5KB	03-25-14	16:15	*
		0 item(s) has/have been sel		X8 in total)	¥ ¥
	SRAM Free space SRAM capacity Backup/restration- Free space Drive capacity	447.5KB 500KB 1.808 Select Drive 1.968 A Rec	sele	itialize ected area Backup all area	
	Urive capacity				

6.10.3 Display example of SRAM management



Number	Item	Description
(1)	Check box	Touch the check box to select or clear the item.
(2)	Function name	Displays the used functions in the order of the advanced system alarm, advanced user alarm, and logging function.
(3)	Setting ID	Displays the setting IDs. The setting IDs of the advanced system alarm are not displayed.
(4)	Size	Displays the data size.
(5)	Setting name	Displays the setting name. For the setting name, only characters within the display range are displayed.
(6)	Date and time	Displays the creation date and time of each data.
(7)	n item(s) has/have been selected.	Displays the information of the items currently selected.
(8)	SRAM Free space	Displays the current free space size or total space size of the SRAM user area.
(9)	Free space	Displays the current free space size or total space size of the drive selected for [Select drive].
(10)	Initialize all	Initializes all areas of the SRAM user area.
(11)	Initialize selected area	Select each area of the SRAM user area to initialize multiple areas of the SRAM user area.
(12)	Select drive	Switches drives to be used for the data backup or restoration in the SRAM user area. The following drives can be switched only when an SD card or USB memory is installed. • SD card: [A: Built-in SD card] • USB memory: [B: USB Drive], [E: USB Drive], [F: USB Drive], and [G: USB Drive]
(13)	Restoration	Saves data in the selected drive to the SRAM user area.
(14)	Backup all area	Saves data in the SRAM user area to the selected drive.

6.10.4 SRAM management operation

■1. Operation to initialize all or selected areas of the SRAM user area

Step 1. Perform any of the following operations.

•To initialize all areas of the SRAM user area, touch the [Initialize all] button.

•To initialize selected areas of the SRAM user area, select the check box of the area to be initialized, and then touch the [Initialize selected area] button.



Step 2. The dialog box shown below appears.
 Check the description of the dialog box. To initialize the SRAM user area, touch the [OK] button.
 To cancel the initialization, touch the [Cancel] button.
 (Example: Dialog hox if the [Initialize all button)

(Example: Dialog box if the [Initialize all] button is touched)

This folder already contains ARP00001.CSV. Do you want to replace the e file	
Modified: 07-04-08 14:32 with this one? Modified: 07-04-08 14:21	
0 K Cance	è1

 Step 3. When touching the [OK] button in step2, the dialog box shown below appears for recheck. To start the initialization, touch the [OK] button.
 To cancel the initialization, touch the [Cancel] button.

Process	completed.
	0 К

Step 4. The completion dialog box appears when the initialization is completed. To close the dialog box and restart the GOT, touch the [OK] button.

■2. Operation to restore data

- *Step 1.* To restore data in the SRAM user area to a drive Select the drive where the data is stored, and then touch the [Restoration] button.
- Step 2. The dialog box shown below appears.
 - Check the description of the dialog box. To restore all data in the SRAM user area, touch the [OK] button. To cancel the restoration, touch the [Cancel] button.



 Step 3. When touching the [OK] button in step2, the dialog box shown below appears for recheck. To start the restoration, touch the [OK] button.
 To cancel the restoration, touch the [Cancel] button.

Process completed.
ОК

Step 4. The completion dialog box appears when the restoration is completed. To close the dialog box and restart the GOT, touch the [OK] button.

■3. Operation to back up all data in the SRAM user area

- *Step 1.* To back up data in the SRAM user area to a drive Select the drive where the data is stored, and then touch the [Backup all area] button.
- Step 2. The dialog box shown below appears.
 Check the description of the dialog box. To back up all data in the SRAM user area, touch the [OK] button.
 To cancel the backup, touch the [Cancel] button.

The file ARP00001.G1P will be deleted. Do you want to proc	ceed?
0 K	Cancel

Step 3. When touching the [OK] button in step 2, the dialog box shown below appears for recheck.
 To start the backup, touch the [OK] button.
 To cancel the backup, touch the [Cancel] button.

Process completed.
0 K

Step 4. When the file, whose name is the same, exists in the destination folder, the dialog box shown below appears without starting the backup.To overwrite the file, touch the [OK] button.

To cancel the backup, touch the [Cancel] button.

Deletion has been completed.
0 K

Step 5. The completion dialog box appears when the backup is completed. To close the dialog box, touch the [OK] button.

The data storage is formatted.

6.11.1 Display operation of memory card format

Data management Villy nain seru Off basic set Ext. func. set Naintenance Nonice Data area Off basic set Ext. func. set Naintenance Nonice Data area Winformation Images File Images Pile Images Pile	Memory card format
11/27/2015 15:40:55	Memory card format Pelect Drive A:Built-in SD card Format

6

DATA CONTROL

6.11.2 Operating the memory card format

- Step 1.Install a data storage to the GOT.For installation/removal procedure of data storages, refer to the following.
 - GOT2000 Series User's Manual (Hardware)
- *Step 2.* Touch and select the drive to format by drive selection.
- Step 3. If touch the [Format] button, the password input screen is displayed.



Step 4. Type [1] [1] [1] [1] and touch the [Enter] key. The dialog box shown below will appear. (The password is fixed to 1111.)

Confirm the contents of the dialog box, and touch the [OK] button to format of the data storage. To cancel the format of the data storage, touch the [Cancel] button.

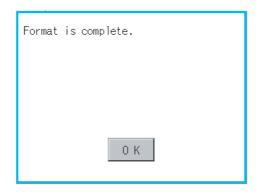
! Caution If execute format operation, all data on the CF card will be initialized. Please do not remove CF card while formatting. Format the CF card ?	
0 K	

Step 5. If touch the [OK] button by step4, the dialog mentioned below is displayed for reconfirm.

Format now ?	
0 K	Cance 1

Step 6.Reconfirm whether to format the data storage.Touch the [OK] button to start the format.Touch the [Cancel] button to cancel the format of the data storage.

Step 7. When the formatting is completed, the completion dialog mentioned below is displayed.



Step 8. To close the dialog box, touch the [OK] button.

POINT

Restrictions on formatting

- When using an unformatted data storage in the GOT, format it by a personal computer. The GOT cannot format the unformatted data storage.
- The format of the GOT does not change the file system (Example: FAT16) of the data storage and inherits the file system before the format.

6.12 Memory Check

6.12.1 Memory check function

Memory check function carries out the write/read check of drive A (Built-in SD card), drive B (USB drive), C (Built-in flash memory), drive E (USB drive), drive F (USB drive), and drive G (USB drive).

Function	Description
A drive memory check	Checks whether the memory (Built-in SD card) of the A drive can be read/written normally.
B drive memory check	Checks whether the memory (USB drive) of the B drive can be read/written normally.
C drive memory check	Checks whether the memory (Built-in flash memory) of the C drive can be read/written normally.
E drive memory check	Checks whether the memory (USB drive) of the E drive can be read/written normally.
F drive memory check	Checks whether the memory (USB drive) of the F drive can be read/written normally.
G drive memory check	Checks whether the memory (USB drive) of the G drive can be read/written normally.

6.12.2 Display operation of memory check

Data management Utility main seru OUT basic set Ext. func. set Mainteenance Monitor Data wrec Marine Information Informatio	
File manager [Memory check]. int Memory check BT data plax. Image: Constraint of the play. Memory chock BT data play. Image: Constraint of the play. Market data play. Image: Constraint of the play. Image: Constraint of the play. Market data play. Image: Constraint of the play. Image: Constraint of the play.	emory check nory check X ct Drive Built-in SD card Flash Memory
	Check Select the memory to check and touch [Check].

Carries out write/read check of memory.

POINT

When drive is not displayed

When the drive (memory) to check is not displayed, confirm the mounting procedure or memory type with reference to the following.

GOT2000 Series User's Manual (Hardware)

When no faults are found in mounting, etc, a memory failure may be arosen. Replace the data storage or built-in flash memory (C drive).

For details of built-in flash memory, contact your local Mitsubishi (Electric System) Service.

The following example explains about Memory Check using built-in flash memory (C drive). For the Built-in SD card (A drive) memory check, install the SD card before carrying out the same key operations as those for the built-in flash memory check. For the USB drive (B drive, E drive, F drive, or G drive) memory check, install the USB memory before carrying out the check operations.

 Step 1.
 Select [Flash Memory] in the Memory check setting screen.

 If select the [OK] button, the numeric keyboard window is displayed.

If select [Cancel] button, returns to the initial menu.

Internal Flush memory area write/read check	
Execute now?	
0 K Cancel	
Please input password.	
7 8 9 A F	B
)
<u>1 2 3 E F</u>	-

llei

Enter

Step 2. Touch to input password ([5] [9] [2] [0]) and touch the [Enter] key.

If touch the [Enter] key, executes read/write check for the built-in flash memory, which is completed in around 10 seconds.

POINT

Password chang

The password cannot be changed. When input password error, the cancel dialog box is displayed. If touch the [OK], returns to the Memory check screen.

Internal Flush memory area write/read check Password error.
0 К
Internal Flush memory area write/read check Executing now
Internal Flush memory area write/read check Normaly completed. O K

POINT

When error is found in memory

When error is found by memory check, the dialog box indicating the area in which the error occurred is displayed.

In case of error, contact your local Mitsubishi (Electric System) Service.

If touch the [OK], returns to the Memory check screen.

Internal Flush memory area write/read check	
write/read error.	
ОК	

6.13 GOT Data Package Acquisition

6.13.1 GOT data package acquisition function

The GOT data package acquisition function copies the following the system applications installed in the GOT and data in the GOT to a data storage.

- System application(BootOS, basic system application, communication driver, and system application (Extended function))
- Special data
- Project data

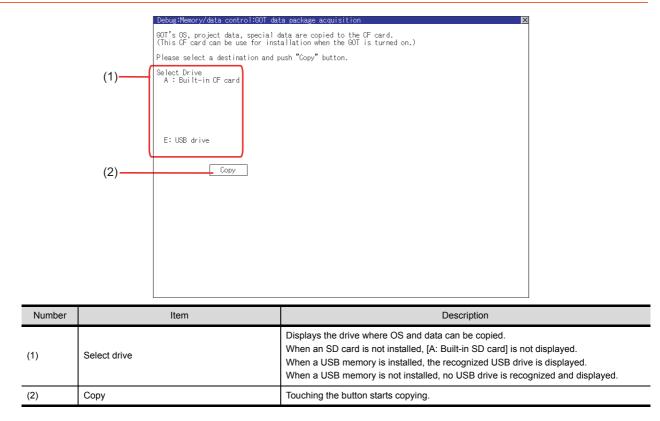
The copied data can be utilized for backup or creating the same GOT system by installing the data. For installation function of the GOT, refer to the following.

➡ 7.3 BootOS and System Application Installation Using Data Storage

6.13.2 Display operation of GOT data package acquisition

Data management Utility main renu Off basic est Ext, func. set Maintenance Monitor Data wre. More manages file information manages file information data for the managesert information data for the managesert in formation data for th	
File waves File waves Waves Waves With stages Applied to be Applied to be	GOT data package acquisition
11/27/2015 15:40:55	GOT data pkg. acquisition The package in the GOT will be copied to the selected drive. (This data can be used for the S.MODE switch installation function.) Please select a destination and push "Copy" button. Select Drive A:Built-in SD card
	Сору

6.13.3 Display example of GOT data package acquisition



6.13.4 GOT data package acquisition operation

■1. Display operation of GOT data package acquisition

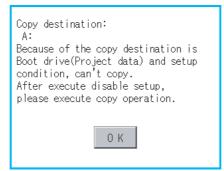
The GOT data package acquisition function copies the system applications installed in the GOT and data in the GOT to a data storage.

(This item explains using the A drive.)

Step 1. Touching the drive name below [Select Drive] inverts the touched drive name. Touching the [Copy] button starts copying.

Debug:Memory/data_control:GOT_data_package_acquisition	Þ
GOT's OS, project data, special data are copied to the CF card. (This CF card can be use for installation when the GOT is turned on.)	
Please select a destination and push "Copy" button.	
Select Drive	
A - Built-In or card	
F: USB drive	
L' GOD GITTE	
Сору	
L	

Step 2.The display depends on the status of copy destination and setup.
Operate following the displayed dialog box.
(Example: Dialog box after touching the [Copy] button)



Step 3. After copying the system application and data, the dialog box for notifying the completion appears. Touching the [OK] button closes the dialog box.

C	эру	is	com	plet	ted.				
					(ЭК			

POINT

Estimation of processing time

The time required for the processing depends on conditions such as system application, data capacity, and file structure.

(Reference value)

- When the capacity is 4 Mbytes: Around 6 seconds
- · When the capacity is 12 Mbytes: Around 18 seconds

2. Precautions for operation

(1) Copying project data

If the Boot source drive and copy destination drive for project data is the same, the project data cannot be copied. If the drives are the same, cancel the setup.

(2) When project data are copied to the GOT

If the system application or project data is copied to the GOT using the data storage created with the GOT data package acquisition, the utility setting is also copied. Check each utility setting after copying to the GOT and change the setting according to need.

(3) Data storage to be used

When performing the GOT data package acquisition, do not store other data to the data storage. If doing so, the previous data will be unavailable.

- (4) When a project in drive C is protected with a security key You cannot copy the project in drive C even by selecting the destination drive and then touching the [Copy] button. For the details of the security key, refer to the following.
 - Im GT Designer3 (GOT2000) Screen Design Manual

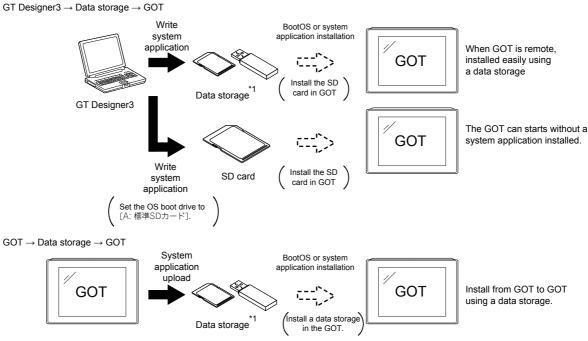


7. INSTALLATION OF BOOTOS AND BASIC SYSTEM APPLICATION

To execute the GOT utility, install the BootOS and system applications on the C drive (built-in flash memory) of the GOT, or set the boot drive of the system application to [A: Built-in SD card] and insert an SD card with system applications into the GOT.

(BootOS is installed in the GOT at factory shipment. It is not necessary to install BootOS when upgrading of it is unnecessary.)

This chapter explains the installation using GOT.



*1 When execute installation with a USB memory, the system applications have to be installed in GOT in advance.

Refer to the following for the installation which uses GT Designer3.

Honora (GOT2000) Screen Design Manual

7.1 BootOS and Basic System Application to be Installed

Under-mentioned BootOS and basic system application are necessary to execute utility.

System application name	Function overview
BootOS	Required for the control of GOT and the communication between PC and GOT. Installed at factory shipment. (BootOS can be installed from GT Designer3, or the SD card. When the installation has completed, the GOT is initialized to be the factory shipment status. Also, the basic system applications must be pre-installed in the GOT when the BootOS is installed again.)
System application	Required for the GOT operation as the monitoring function of GOT, installation and deletion of the system application or project data, touch key control or display function of the screen and guidance. Required for display and operation of the user-created screen and utility screen. Not installed in GOT at factory shipment. Install it from GT Designer3 or the data storage.

7.2 Prior Preparations for Installing BootOS and System Application

For the installation using GOT, the data storage that is storing BootOS or the system application is required. There are the following three methods for the installation of BootOS and system application.

■1. [To Memory Card] from GT Designer3

Im GT Designer3 (GOT2000) Screen Design Manual

■2. Uploading from other GOT (BootOS or system application has been installed)

🗯 6. DATA CONTROL

■3. Using an SD card that stores data with OS boot drive set to A drive

GT Designer3 (GOT2000) Screen Design Manual

POINT

Precautions on writing BootOS, system applications in a data storage

When writing BootOS, system applications or others into the data storage, be sure to execute by the utility of other GOT or GT Designer3.

The installation is not executed properly with the storage to which uploaded from the utility of GOT or copied by software other than GT Designer3.

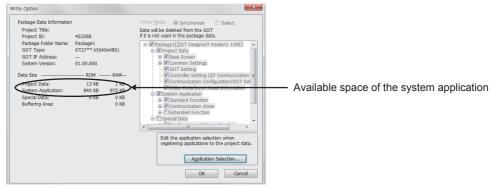
Note the available capacity of the data storage.

The available capacity of BootOS and system applications can be confirmed by [Write to Memory Card] or [Write Option] of GT Designer3.

[Communicate with Memory Card] dialog

Communicate with Memory Card		
Memory Card Write SootOS Write		
PC Write Data: Package Data Write Option	Write Memory Card Information	
Data Size: ROM: 18381 KB RAM: 39750 KB	Free Space: 254285116 KB Capacity: 477544444 K	—— Available space of the data storage
Memory Card Destination Memory Card:		
Drectly from the memory card Instal Destination Drive: CBulk-in Flash Memory	Memory Card Write	
	Close	

[Write Option] dialog



7.3 BootOS and System Application Installation Using Data Storage

There are the following two types for the installation of BootOS and system applications using a data storage.

■1. Installing when starting the GOT

➡ 7.3.1 Installing when starting the GOT

All the system applications and project data stored in the data storage are transferred to the GOT when powering on the GOT. This installing method is effective in the following cases.

- The GOT utility cannot be displayed.
- The system application is not installed.

2. Installing using the data control function (Utility)

7.3.2 Installing using the data control function (Utility)

By operating the utility, select the system application or project data stored in the data storage and transfer them to the GOT.

POINT

Precautions on installing BootOS, system applications

(1) Installing both BootOS and system applications

After completing BootOS installation, install system applications. When installing BootOS, the built-in flash memory in the GOT is initialized and goes to the status at factory shipment. (All system applications and project data are erased.)

BootOS is installed in the GOT at factory shipment. It is not necessary to install BootOS when not upgrading it.

(2) Copying project data using a data storage

After installing BootOS and system applications, download the project data. At this time, match the version of the system application in the GOT with the version of the system application with which the project data was created.

(3) When system applications and project data are in the data storage (when using GT Designer3)

For S.MODE switch-pressing installation, after the system application installation has completed, the project data is downloaded.

When installing with the utility, install the system application and download the project data from their respective operation screens.

(4) Installation cannot be interrupted.

Do not perform any of the following during a BootOS or system application installation. Failure to do so may result in installation failure, causing the GOT malfunction.

- · Powering off the GOT
- Pressing the reset button of the GOT
- · Opening the cover of the SD card interface
- · Removing the data storage
- If the installation failure and the GOT malfunction occur, take the following action.
- If BootOS installation failed:

Touch the screen according to the displayed dialog to restart the GOT.

- After restarting the GOT, the GOT is initialized to be the factory shipment status. • If the basic system application installation failed:
 - Install BootOS.
 - ➡ 7.3.1 Installing when starting the GOT

7.3.1 Installing when starting the GOT

The displayed message is different depending on the installation condition of the basic system application in the GOT. When the screen requesting operation is displayed, operate the GOT according to the instructions on the screen.

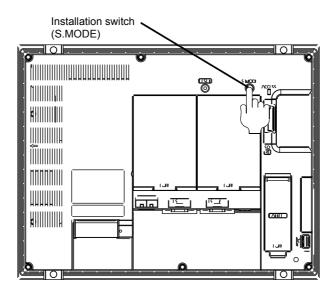
POINT

S.MODE switch-pressing installation function

When the data storage that stores data with the OS boot drive set to the A drive is used, the S.MODE switch-pressing installation function is not available.

■1. Operation procedure

The S.MODE switch is on the back of the GOT, as shown below.



(1) When installing with an SD card

- *Step 1.* Power OFF the GOT, and install the SD card where the BootOS, system application or project data is stored in the SD card interface of the GOT.
- Step 2. Close the cover of the SD card interface of the GOT.
- Step 3. Power on the GOT. Power on the GOT while pressing the install switch (S.MODE switch) on the back of the GOT. (1-point press installation function)
- Step 4.The BootOS or system application is installed in the built-in flash memory.The SD card access LED is lit during the install execution.Do not pull out the SD card or power OFF the GOT while the SD card access LED is lit.

Now installing BootOS.

Step 5.The GOT restarts automatically after the installation is completed.
(When the system application is already installed, the GOT restarts by touching the OK button)

Reboot.		

Step 6. After confirming normal restart, confirm that the SD card access LED is not lit, and remove the SD card from the SD card interface of the GOT.

(2) When installing with USB memory

- Step 1. Power off the GOT, and install the USB memory where the BootOS, system application or project data is stored in the USB interface of the GOT.
 The BootOS cannot be stored in the USB memory where the system application or project data is stored.
- Step 2. Power on the GOT. Power on the GOT while pressing the install switch (S.MODE switch) on the back of the GOT. (1-point press installation function)
- Step 3.The BootOS or system application is installed in the built-in flash memory.The USB memory access LED is lit during the installation execution.Do not pull out the USB memory or power off the GOT while the USB memory access LED is lit.

Now installing BootOS.

Step 4.The GOT restarts automatically after the installation is completed.
(When the system application is already installed, the GOT restarts by touching the OK button)

Reboot.

Step 5. After confirming normal restart, confirm that the USB memory access LED is not lit, and remove the USB memory from the USB interface of the GOT.

For removing methods of the USB memory, refer to the following.

4.2.3 USB device status display operation

For details of data control function, refer to the following.

➡ 6. DATA CONTROL

POINT

Precautions on executing data control function

When execute data control function, system application has to be installed in GOT in advance. Thus, this function cannot be used for the initial installation of BootOS, system application after purchasing GOT.

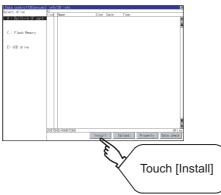
Install system application by the following two methods.

- GT Designer3
- · Installing when starting the GOT

■1. Operation procedure

(1) When installing with an SD card

- Step 1. Install the SD card where the BootOS, system application or project data is stored in the SD card interface of the GOT.
- Step 2. Close the cover of the SD card interface of the GOT.
- Step 3. Display the data control function screen (Utility) on the GOT, and install BootOS, system application from the SD card to GOT.



Step 4. The SD card access LED is lit during the install execution.
 Do not pull out the SD card or open the SD card interface while the SD card access card is lit.



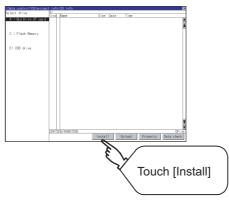
Step 5. GOT restarts automatically after installation is completed.

Reboot.

Step 6. After confirming normal restart, confirm that the SD card access LED is not lit, and remove the SD card from the SD card interface of the GOT.

(2) When installing with USB memory

- *Step 1.* Install the USB memory where the BootOS, system application or project data is stored in the USB interface of the GOT.
- Step 2. Display the data control function screen (Utility) on the GOT, and install basic system application from the USB drive to GOT.



Step 3.The USB memory access LED is lit during install execution.Do not pull out the USB memory or power OFF the GOT while the USB memory access LED is lit.

	Now installing BootOS.	

Step 4. The GOT restarts automatically after the installation is completed.

Reboot.		

- Step 5. After confirming normal restart, confirm that the USB memory access LED is not lit. Display the USB device status screen and remove the USB memory from the USB interface of GOT.
 - ➡ 4.2.3 USB device status display operation

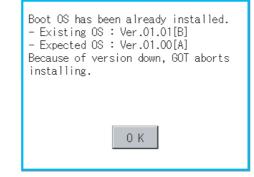
BootOS installation

When installing BootOS, GOT compares the version of the BootOS to be installed with the version of BootOS which is already installed.

If the major version of BootOS to be installed is old, execute the following operations to prevent it from being rewritten. (When installing from GT Designer3, a message is displayed on the personal computer screen. Follow the instructions in that message.)

(1) When only BootOS is stored in the data storage

The message indicating disabled installation is displayed.



OK Touch the ### button to cancel installation. After canceling installation, restart the GOT.

(2) When BootOS and system application are stored in the data storage

Skip the BootOS installation and install the system application. If the system application has already installed in the GOT, the following message is displayed.

Boot OS has been alf - Exsisting OS : Ver - Expected OS : Ver Exsisting other OS ; project data will be Do you want to insta	r.03.00.00 .03.00.00 and Special data and e_deleted.
0 К	Cance 1

OK Touching the ### button executes installation.

Cancel Touching the ### button cancels installation. After executing or canceling installation, restart the GOT. (3) When the version is the same or newer regardless of the data stored in the data storage (conditions (1) and (2) above)

The version information and a dialog for selecting whether or not to continue installation are displayed.

Boot OS has been alr - Exsisting OS : Ver - Expected OS : Ver. Exsisting basic OS , project data will be Do you want to insta	.01.01[B] 01.01[B] and other OS and deleted.
0 K	Cancel

<GOT screen when BootOS is installed from the data storage.>

Touching the OK button executes installation.

Touching the Cancel button cancels installation.

■2. System application installation

(1) Version of each system application

Match the version of each system application when installing system applications. System applications cannot be installed if the version of each system application does not match.

When the installation process is disco		When the installation process is nor	mally exec	сι
	1. 0. 0	Basic system application	: 2 . o. o	
	2. 0. 0	Communication driver	: 2 . o. o	
System application (Extended function)	2 . 0. 0	System application (Extended function)	: 2 . o. o	
L	لب.			
	↑			
Please n	natch the number	•		

(2) When using package data created with GT Designer3 Version1.122C or later

If package data created with an earlier version of GT Designer3 than 1.122C or later is installed, the GOT ID No. and the communication settings may not be reflected.

To reflect the GOT ID No. and the communication settings, them in the utility.

- 2.3 Unique Information
 - 2.10 Controller

POINT

Checking method of BootOS, system application version

Confirm the version of BootOS installed in the GOT at product shipment by rating plate of GOT rear face

executed.

MITSUBISHI GRAPHIC OPERATION TERMINAL MODEL GT2708-VTBA IN 100-240VAC 50/60Hz POWER MAX 100VA MAC ADD. 123456789012 SERIAL 00013910/AA00000-A DATE 2013-09 [
MITSUBISHI ELECTRIC CORPORATION MADE IN JAPAN	 (A A) BootOS version (In case that the BootOS is two digits, only the first digit is written.)

8. SYSTEM ALARM DISPLAY AND LIST

This chapter describes the system alarms displayed on the GOT.

8.1 Display on the GOT

The following shows the displayed contents and checking method of the system alarm on the GOT.

■1. Display contents of the system alarm

- The display contents differ according to the error source.
- · GOT error

G01-402 Communication timeout. Confirm communication pathway or modules.

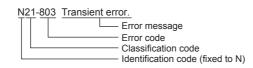
Elloi code
Classification code
Identification code (fixed to G)

GOT Mobile error

W01-660 Failed to obtain op. authority. Server does not respond.

 ······································
Error message
Error code
Classification code
Identification code (fixed to W)

Network error



CPU error

M0101-104 Paramet	er error.
	Error message
	 Error code
	 Classification code
	 Manufacturer code
	 Identification code

■2. How to check system alarms

(1) Checking method when the system alarm settings are configured on GT Designer3 The system alarm settings can be configured on GT Designer3. For the details of the settings on GT Designer3 and the display contents, refer to the following.

GT Designer3 (GOT2000) Screen Design Manual

(2) Checking method using the utility

When the system alarm settings are not configured on GT Designer3, you can check system alarms using the system alarm display in the utility.

➡ 4.5 System Alarm

POINT

How to check the error code and channel number

- You can check the following for the error code and channel number.
- Error code
- Error code storage area for the system information function
- · Channel No.
 - GOT special registers (GS262 to GS264)

For details of the system information and GOT special register, refer to the following manual.

GT Designer3 (GOT2000) Screen Design Manual

8.2 Error Codes and System Alarm List

■1. Error codes displayed on the GOT

The following shows the error codes displayed on the GOT and the relevant manuals.

(1) GOT error codes and network error codes

Error code	Error source	Description	Channel No. storage destination ^{*1}	Reference
300 to 399		Error code of the GOT main unit function		
400 to 499	GOT ^{*2}	Error code of the GOT communication function	GS262 ^{*3}	■3. System alarm list
500 to 699		Error code of the GOT main unit function		
800 to 999	Network	Error code of network	GS264	

*1 For the details of the GOT special registers (GS262 to GS264), refer to the following.

🗯 GT Designer3 (GOT2000) Screen Design Manual

*2 For a system alarm related to the file access, the drive where the alarm has occurred cannot be identified.

To identify the drive where the alarm has occurred, check the File Access Error signals (System signal 2-2.b7 to b10). *3 Channel No. will not be stored depending on the error code.

For the details of the channel No. storage by error code, refer to the following.

3. System alarm list

(2) Controller error codes

Error code	Error source	Description	Channel No. storage destination ^{*1}	Reference
1 to 32767	Controller	Error codes for the controller	GS263	Manual of the controller

*1 For the details of the GOT special registers (GS262 to GS264), refer to the following.

GT Designer3 (GOT2000) Screen Design Manual

*2 For the FXCPU, error code 100 to 109 correspond to M8060 to M8069 respectively.

Example) For error code 100, take the corrective action for M8060.

*3 For the hexadecimal error code of the servo amplifier, the GOT displays the error code in decimal incremented by 2000. When referring to the manual of servo amplifier by the error code displayed as a GOT system alarm, subtract 20000 from the GOT error code and change its lower three digits to the hexadecimal number. Example) The GOT system alarm 20144 refers to the servo amplifier error code 90H.

2. Identification/manufacturer/classification code of the system alarm

A system alarm contains an identification code, manufacturer code, and classification code. The identification code indicates the category of the error. The manufacturer code and classification code indicate the area where the error occurred.

The following shows the details of the identification code, manufacturer code, and classification code.

(1) Identification code

Identification code	Description	
G	GOT error	
W	GOT Mobile error	
Ν	Network error (in the network unit that is mounted on the GOT)	
М	Mitsubishi controller error	
С	Non-Mitsubishi controller, microcomputer, or MODBUS error	

(2) Manufacturer code

Manufacturer code	Description
01h	Mitsubishi Electric Corporation
20h	Computer, MODBUS
21h	OMRON
22h	KEYENCE

Manufacturer code	Description
23h	FUJI ELECTRIC (PLC)
24h	FUJI ELECTRIC (Temperature controller)
25h	YASKAWA
26h	YOKOGAWA
27h	PANASONIC, PANASONIC IDS
28h	TOSHIBA
29h	TOSHIBA MACHINE
2Ah	HITACHI IES
2Bh	HITACHI
2Ch	KOYO EI
2Dh	SHARP
2Eh	JTEKT
30h	SHINKO
31h	CHINO
32h	AZBIL
33h	RKC
34h	ΙΑΙ
36h	ALLEN-BRADLEY
37h	GE IP
38h	LS IS
39h	SICK
3Ah	SIEMENS

(3) Classification code

The details of the classification code differ according to the identification code and manufacturer code.

Identification code	Manufacturer code	Classification code	Description
.		00h	Related to the monitor function or object function
		01h	Related to the communication or controllers
G, W	-	02h	Related to operations
		03h	Related to the file access
		21h	[MELSECNET/H]
		22h	[CC-Link IE Controller Network]
N		23h	[CC-Link IE Field Network]
Ν	-	24h	[CC-Link Ver.2(ID)]
		25h	[PROFIBUS DP]
		26h	[DeviceNet]
		00h	[Serial(MELSEC)]
		01h	[CC-Link(G4)]
		02h	[Multidrop(Slave)]
	01h	03h	[AJ71QC24,MELDAS C6*]
		04h	[AJ71C24/UC24]
		05h	[MELSEC-FX]
М		06h	[MELSEC-WS]
		10h	[Ethernet(MELSEC),Q17nNC,CRnD-700,Gateway]
		11h	[Ethernet(FX),Gateway]
		20h	[BUS(Q)]
		21h	[MELSECNET/H]
		22h	[CC-Link IE Controller Network]
		23h	[CC-Link IE Field Network]]

Identification code	Manufacturer code	Classification code	Description
		24h	[CC-Link Ver.2(ID)]
		25h	[BuS(A/QnA)]
М	01h	30h	[MELSEROV-J4,J3,J2S/M,JE]
		50h	[FREQROL 500/700/800,SENSORLESS SERVO]
		51h	[FREQROL 800]
	015	00h	[OMRON SYSMAC]
	21h	10h	[Ethernet(OMRON),Gateway]
	22h	00h	[KEYENCE KV-700/1000]
	22h	10h	[Ethernet(KEYENCE),Gateway]
	23h	00h	[FUJI MICREX-F]
		00h	[YASKAWA GL]
		01h	[YASKAWA MP2000/MP900/CP9200SH]
	0.5k	02h	[YASKAWA CP9200(H)]
	25h	03h	[YASKAWA CP9300MS(MC compatible)]
		10h	[Ethernet(YASKAWA),Gateway]
		11h	[Ethernet(YASKAWA MP3000), Gateway]
		00h	[YOKOGAWA FA500/FA-M3/STARDOM]
	26h	10h	[Ethernet(YOKOGAWA),Gateway]
	27h	00h	[Panasonic MEWNET-FP]
		00h	[TOSHIBA PROSEC T/V]
	28h	10h	[Ethernet(TOSHIBA nv), Gateway]
	29h	00h	[TOSHIBA MACHINE TCmini]
		00h	[HITACHI HIDIC H]
	2Ah	01h	[HITACHI HIDIC H(Protocol2)]
	2Bh	00h	[HITACHI S10mini/S10V]
	2Ch	00h	[KOYO KOSTAC/DL]
С	2Dh	00h	[SHARP JW]
	2Eh	00h	[JTECT TOYOPUC-PC]
		00h	[AB SLC500,AB 1:N]
		01h	[AB MicroLogix]
		02h	[AB Control/CompactLogix]
	36h	03h	[AB MicroLogix(Extended)]
		10h	[EtherNet/IP(AB),Gateway]
		11h	[EtherNet/IP(AB Tag),Gateway]
	37h	00h	[GE (SNP-X)]
	38h	00h	[LS Industrial Systems MASTER-K]
	39h	00h	[SICK Flexi Soft]
		00h	[SIEMENS S7-200]
		01h	[SIEMENS S7-300/400]
	3Ah	10h	[Ethernet(SIEMENS S7),Gateway]
		11h	[Ethernet(SIEMENS OP),Gateway]
	21h	70h	[OMRON THERMAC/INPAMEL NEO]
	24h	70h	[FUJI PXR/PXG/PXH]
	26h	70h	[YOKOGAWA GREEN/UT100/UT2000/UT Advance]
	30h	70h	[SHINKO TECHNOS CONTROLLER]
	31h	70h	[CHINO Controllers(MODBUS)]
		70h	[Azbil SDC/DMC]
	32h	71h	[Azbil DMC50]

Identification code	Manufacturer code	Classification code	Description
	33h	70h	[RKC SR Mini HG(MODBUS)]
	34h	90h	[IAI ROBO CYLINDER]
	5411	91h	[IAI X-SEL]
	27h	30h	[Panasonic MINAS-A4]
	2711	31h	[Panasonic MINAS-A5]
С	20h	E0h	[MODBUS/RTU]
C		E1h	[Computer]
		25h	[PROFIBUS DP]
		26h	[DeviceNet]
		F0h	[MODBUS/TCP,Gateway]
		F1h	[Computer]
		F2h	[Ethernet(SLMP), Gateway]

■3. System alarm list

The system alarm detected with GOT is shown below.

Error code	Error message	Action	Channel No. storage
300	Project data contains unsupported objects.	Install the latest version of GT Designer3 and write the package data again to the GOT.	×
301	Project data contains unsupported functions.	Install the latest version of GT Designer3 and write the package data again to the GOT.	×
302	Project data contains unsupported settings.	Install the latest version of GT Designer3 and write the package data again to the GOT.	×
303	Set monitor points too large. Decrease setting points.	Decrease the number of objects from the displayed screen. For the number of maximum objects for 1 screen, refer to the following. GT Designer3 (GOT2000) Screen Design Manual	×
305	Background loading of the system package failed.	Check that the data storage, which stores the package data and GOT project data, is installed and the data is not damaged.	×
306	No project data. Download screen data.	The project data is not downloaded or the screen data is not sufficient. Download the project data or screen data.	×
307	Monitor device not set	The monitor device of the object is not set. Set the monitor device of the object.	×
308	No comment data. Download comment.	The comment file does not exist. Create the comment file and download to GOT.	×
309	Device reading error. Correct device.	The error occurred when reading a continuous device. Correct the device.	×
310	Project data does not exist or out of range.	Specified base screen / window screen does not exist in the project data. Specified base screen / window screen is out of the permissible area. Specify the existing base screen / window screen.	×
311	No. of alarm has exceeded upper limit. Delete restored alarm.	The number of alarm histories that can be observed by the alarm history display function has exceeded the maximum points. Delete the restored history to decrease the number of alarm histories.	×
312	No. of sampling has exceeded upper limit. Delete collected data.	The collection frequency exceeded the upper limit when "Store Memory" and "Accumulate/Average" were set in the scatter graph. Approve "Clear trigger" setup in the scatter graph. Set the "Operation at frequency over time" to "Initialize and Continue" in scatter graph.	×
315	Device writing error. Correct device.	Error occurred while writing in the device. Correct the device.	×
316	Cannot display or input operation value. Review expression.	In indirect specification of comment/parts number, the data operation result exceeded the range in which device type can be expressed. Review the data operational expression, in order not exceeding the range in which the device type can be expressed.	×

Error code	Error message	Action	Channel No. storage
317	Too high frequency of data collection. Review conditions.	 Data of an object, to which [Collect data only when trigger conditions are satisfied] is set, are collected too frequently, or the number of objects has exceeded the number of objects collectable simultaneously. Set a longer cycle for trigger occurrence to each object. Make the settings so that 257 or more display triggers of objects, to which [Collect data only when trigger conditions are satisfied] is set, do not occur simultaneously. 	×
320	Specified object does not exist or out of range.	The part file does not exist. Create the part file and download to GOT.	×
322	Dedicated device is out of range. Confirm device range.	The monitored device No. is out of the permissible area of the targeted PLC CPU. Set the device within the range that can be monitored by the monitored PLC CPU and parameter settings.	×
326	Label data types do not match. Confirm the label setting.	 The data type of the device assigned to the label is incorrect. For the available data type of global labels, refer to the following. GT Designer3 (GOT2000) Screen Design Manual The data type of object devices or others and that of labels set on the PLC side are inconsistent. Correct the data type of the objects or others according to that of the labels set on the PLC side. A constant value is set for the label. In the object setting, do not use the label in which a constant value is set. A 64-bit type device is assigned to the label. Do not use a 64-bit type label in the device setting. 	×
327	Label names have not been resolved. Resolve label names again.	Check the connection status of the PLC and execute the label name resolution again. GT Designer3 (GOT2000) Screen Design Manual	×
328	Label setting error. Confirm the label setting.	 The label is set for the PLC which does not support labels. Correct the network No. and station number. The label name specified in the project data does not exist on the PLC side. Check if the label name specified in the project data exists on the PLC side. The GOT access the label inaccessible from external devices. Enable the access from external devices in the label setting on the PLC side. When a global label of structure has members to which devices are manually assigned, the GOT fails to perform the label name resolution. Perform operations so that the devices are automatically assigned to the members, or directly set the manually assigned devices as monitor devices. 	×
329	Station No. switching does not support labels.	Do not perform the station No. switching to the station using labels.	×
330	Insufficient memory media capacity. Confirm M-card capacity.	The available space of the memory card is insufficient. Check the available space of the memory card. For the checking method, refer to the following. GT Designer3 (GOT2000) Screen Design Manual	×
331	Memory card not installed or M- CARD switched OFF	The memory card is not installed in the drive, or the SD card cover is opened. Install the memory card in the specified drive. Close the SD card cover to make the SD card accessable. 	×
332	Memory media is not formatted.	Memory card (build-in SD card) is not formatted or formatted incorrectly. Format the memory card.	×
333	Unable to overwrite. Memory card is write-protected.	Memory card (build-in SD card) is write-protected. Cancel the write-protection of memory card.	×
334	Memory media error. Replace memory media.	Memory card (build-in SD card) is faulty. Replace the memory card.	×
336	The target file size is too large to be accessed.	 Check if the size of the file that the GOT attempts to access is larger than 2 GB. Check that the size of the image file is 300 KB or smaller. 	×
337	File output failed. Confirm output file path.	Either of the following folder or file with the name same as the file to be created exists in the storage destination SD card or USB memory. • Folder storing data • Write-protect file Delete the above folder or file, or change the name of the file to be created.	×
338	Modem is not connected correctly or the power is not turned on.	 There is no response to the initializing command because the modem is not connected correctly or the power is not turned on. Confirm the modem connection. Turn on the power of the modem. 	×

Error code	Error message	Action	Channel No. storage
339	Failed to initialize the modem. Check initialization command.	An error is returned from the modem because the initializing command is invalid. • Confirm the initializing command of the modem.	×
340	Printer error or power failure	Printer is faulty or the printer power supply has not been turned on.Confirm the printer.Turn on the power supply of the printer.	×
342	External power is not supplied to external I/O unit	 Error occurred at the external I/O interface module. If an external power supply (24VDC) is not supplied, supply the external power supply. If an external power supply is supplied, replace the external I/O interface module. 	×
343	External I/O unit installation error. Check if firmly installed.	The external I/O interface module is not installed correctly. Install the external I/O interface module correctly.	×
345	BCD/BIN conversion error Correct data	Any value that cannot be converted to a BCD/BIN value is being displayed/input. • Change the device data to be displayed to the BCD value. • Correct the input value to the 4 digits integer.	0
360	0 divisor division error. Confirm operation expression.	Zero division occurred by the data operational expression. Review the data operational expression so that the divisor should not become 0.	×
361	Specified device No. is out of range.	The entered file number is out of range. Check the entered file number, and enter a valid value (1 to 9999).	×
362	Invalid device value in time action setting	When controllers are controlled with the GOT's time action function, the set No. is our of range, or the set device values regarding the operation settings are out of range or invalid. Set valid values.	×
363	The file number exceeds the limitation. File output failed.	Delete the file that has the largest file No. and unnecessary files.	×
370	Upper and lower limit value error. Confirm value setting.	The setting of lower/upper limit value is [Upper limit < Lower limit]. Correct the setting so as to be "Upper limit \geq Lower limit".	×
380	Insufficient USB drive capacity. Confirm the drive capacity.	Available memory of the extention drive is insufficient. Confirm the available memory of the extention drive, and increase the memory if it is low.	×
381	USB drive is not installed or in a removable state.	Install the extention drive if it is not installed. Reinstall the extention drive if it is in the removable status.	×
382	USB drive is not formatted.	Extention drive is not formatted or formatted incompatible with GOT. Reformat the extention drive.	×
383	Unable to overwrite. USB drive is write-protected	Extention driver is write-protected. Cancel the write-protection of extention drive.	×
384	USB drive error. Replace USB drive.	Extention drive is faulty. Replace the extention drive.	×
401	An error response has been received from the connected device.	 Eliminate the cause of the CPU error. Review the operating conditions of the CPU, parameters, and others. 	0
402	Communication timeout. Confirm communication pathway or modules.	 The time-out error occurred during communicating. Confirm the cable omission, the communication unit mounting status and status of the PLC. Channel No. is not displayed in error code or error message in the case an error occurs when using the multi-channel function. Refer to the following manual to identify the channel No. in error. GOT2000 Series Connection Manual for GT Works3 and a controller used (1.6 Checking for Normal Monitoring) This error may occur when the load of PLC CPU becomes heavier while accessing other stations. In such case, transfer the data of the other station to the host station PLC CPU and monitor them at the host. Put COM instruction when the PLC scanning is long. Check if the version of the communication driver supports the controller. For how to check the version of the communication driver, refer to the following. GT Designer3 (GOT2000) Screen Design Manual 	0

Error code	Error message	Action	Channel No. storage
403	SIO status error. Confirm communication pathway or modules.	Either of the overrun error, parity bit error or flaming error was generated when the RS-422 / RS-232 communication was received. Confirm the cable omission, the communication module mounting status, status of the PLC and the transmission speed of the computer link. Channel No. is not displayed in error code or error message in the case an error occurs when using the multi-channel function. Refer to the following manual to identify the channel No. in error.	0
404	Response does not match communication request.	 (1.6 Checking for Normal Monitoring) Resolve crosstalk on the line. Lengthen the communication timeout time. 	0
406	Specified station access is out of range. Confirm station no.	 Station numbers other than master/local station are specified at the CC-Link connection (via G4). A PLC CPU other than QCPU is accessed. Confirm the station number of the project data. 	0
407	Accessed other network. Change network setting.	 When monitoring the same network as the GOT The GOT accesses the other networks with the MELSECNET/H, MELSECNET/ 10 (PLC to PLC network), or CC-Link IE Controller Network connection. Confirm the network number of the project data so as not to access to other networks. When monitoring other networks Reconfigure the [Routing Information Setting] of GT Designer3 or the [Routing Information Setting] of GX Developer. When using GT15-75J71LP23-Z/ GT15-75J71BR13-Z Other networks cannot be monitored. Confirm the network number of the project data so as not to access to other networks. 	0
410	Cannot perform operation because of PLC run mode. stop the PLC.	The operation, which could not be performed during RUN of PLC CPU, was performed. Stop the PLC CPU.	0
411	Memory cassette is write-protected. Check the memory cassette.	The memory cassette installed in the PLC CPU is EPROM or E2PROM, and it is in a protected status. Confirm the memory cassette installed in PLC CPU.	0
412	Cannot read/write device protected by keyword. Remove keyword.	The key word is set in PLC CPU. Cancel the key word.	0
413	Unsupported CPU has been accessed.	 Check the latest manual to see if the CPU is supported. Write package data created with the latest version of GT Designer3. 	0
420	E71 specification is ASCII.	[ASCII code] is selected in [Ethernet operations] of the PLC side setting. Select [Binary code].	0
421	E71 is set as read-only. Clear setting.	The Ethernet module on the PLC side is set in read-only. Set the Ethernet module on the PLC side to write-enabled.	0
422	Not communicating between CPU and E71. Confirm CPU error.	PLC CPU error. Communication between PLC CPU and the PLC side Ethernet module impossible. Confirm whether there is error in PLC CPU by GX Developer etc. (Confirm buffer memory)	0
423	Insufficient network table information. Add station no.	 The station number set in the project data and the station number set in the switching station No. device do not exist in the Ethernet setting of GT Designer3. Add the station number set in the project data to the Ethernet setting of GT Designer3. When using the station No. switching function, check the data of the switching station No. device. When the station number specified in the switching station No. device is not set in the Ethernet setting, add the station number to the Ethernet setting. When the station number does not exist in the system, change the data of the switching station No. device. (Set the station number so that it becomes the same as the station number of the PLC side Ethernet module set in the parameter setting of GX Developer.) 	0

Error code	Error message	Action	Channel No. storage
424	Same sta. on GOT & project data. Review communication parameter.	 The station number set in the GOT's utility is the same as the station number set in the Ethernet setting of GT Designer3 (the station number of the PLC side Ethernet module) or in the project data. Check the following contents so that the multiple station numbers should not be the same. Check the GOT's station number in the GOT's utility. Check the station number set in the project data. Check the station number set in the project data. Check the station number set in the Ethernet setting. (Set the station number so that it becomes the same as the station number of the PLC side Ethernet module set in the parameter setting of GX Developer.) When using the station No. switching function, check the data of the switching station No. device. 	0
425	A duplicate IP address has been detected. Confirm the setting.	The GOT has the same IP address as another device. Change the IP address of the GOT or the device.	0
430	Wireless LAN unit is not mounted or a hardware error occurred.	The wireless LAN communication unit is not installed on the side interface. Check that the unit is installed properly.	×
431	Connectable access point is not found.	Check the setting for an accessible access point, and the wireless LAN connection setting.	×
432	Wireless LAN connection settings are not specified.	After configuring the wireless LAN connection setting, enable the wireless LAN connection function. GT Designer3 (GOT2000) Screen Design Manual	×
433	Failed to authenticate the access point.	Check if the authentication method specified in the wireless LAN connection setting is the same as that on the access point side.	×
434	GOT hardware version not supported by wireless LAN connection	Use a GOT with hardware version B or later. For how to check the hardware version, refer to the following. GOT2000 Series User's Manual (Hardware)	×
440	The label information has been updated.	The label name resolution will be executed automatically. Wait for the completion.	×
441	The specified CPU is updating the label information.	The global label information of the specified CPU will be updated. Wait for the completion.	×
442	Resolving the label information. Do not turn off the power during the process.	The label name resolution is being executed. Wait for the completion.	×
448	PLC cannot handle as requested. Correct devices.	A device outside the range of PLC CPU file registers and the buffer memory was specified. Correct the monitor device by setting file register of the PLC CPU.	0
449	Dedicated device is out of range. Confirm device range.	 Set the address for the special function module in the GOT monitor available range. Set the device in the GOT monitor available range. 	0
450	Path has changed or timeout occurred in redundant system.	 The path has been switched or timeout occurred in the redundant system. Check the PLC CPU to know if the path has been switched. Check the cable connection status, the communication unit installation status, and the PLC CPU status. This error may occur when the load of the PLC CPU becomes heavier when accessing other stations. In such a case, transfer the data of the other stations to the host station PLC CPU and monitor them at the host. Perform one of the following operations if the PLC scanning time is long: COM instruction/Extension of END processing/Setting of the number of processing times for general data/Data update batch processing. 	0
451	MELSEC redundant system settings and current config. do not match.	Change the MELSEC redundant setting in accordance with the actual MELSEC redundant system.	0
452	System (A/B) and system status (control/standby) not determined in redundant system.	 Set one system as system A or control system and the other system as system B or standby system. Do not specify any connection destination system (request destination module I/ O number). 	0
453	The standby system is set in a system other than the MELSEC iQ-R redundant system.	 When the MELSEC redundant setting is not configured, delete the specified device of the standby system. Configure the redundant system using the MELSEC iQ-R series. 	0
460	Communication unit error	Reset the power of the GOT.Replace the unit.	0

Error code	Error message	Action	Channel No. storage
461	Communication error occurred between option units and the GOT.	Check the following manual for the vibration resistance specifications and the method of mounting the option units. After that, reset the GOT power supply.	0
		GOT2000 Series User's Manual (Hardware)	
470	No routing params. Communication not established with specified sta.	Set routing parameters.	0
471	No IP address info. (Ethernet table) of connection destination.	Set the network information about the destination for [Ethernet setting].	0
480	Communication channel not set. Set channel number on Utility.	 Channel (CH.No.1 to 4) to communicate with a controller is not set. After setting the Communication Settings on the GT Designer3, download it to the GOT. Change the channel assignment in the Communication Setting on the utility. 	⊖ ^{*1}
481	Communication unit not mounted to the slot of active channel.	 The interface where the channel (CH No.1 to 4) is set does not have a communication unit installed. Install a communication unit to the interface where the channel (CH No.1 to 4) is set. Change assignment of the channel (CH No.1 to 4) in the Communication Setting. 	○ ^{*1}
482	Too many same units are mounted. Confirm the no of units.	Units are mounted on the GOT exceeding the maximum number of mountable units. Check the number of units, and remove unnecessary units.	⊖ ^{*1}
483	Simultaneous mounting of the units are not allowed.	Two or more units which cannot be mounted on the GOT simultaneously are mounted. Check the mounted units, and remove unnecessary units.	⊖ ^{*1}
484	Unit mounted incorrectly. Move the unit to correct position.	The unit is not mounted on the GOT in the correct position. Confirm the mounting position of the unit.	○ ^{*1}
485	Too many units mounted on GOT. Reduce units.	Units are mounted on the GOT exceeding the maximum number of mountable units. Check the number of units, and remove unnecessary units.	○ ^{*1}
486	Communication unit not corresponded to set communication driver.	 The communication driver set in the Communication Setting and the communication unit installed on the GOT do not match. Check whether the communication driver set in the Communication Setting is correct. Check whether any incorrect communication unit has been installed on the GOT. 	⊖ ^{*1}
487	Please turn on the PLC and the GOT again.	Turn the power of the PLC and GOT on again.	Ο,
488	Too many units mounted on GOT. Reduce units.	Units are mounted on the GOT exceeding the maximum number of mountable units.Check the number of units, and remove unnecessary units.	○ ^{*1}
489	Inactive channel has been selected at Communication Settings.	 Inactive channel No. has been set in the project data. Check whether any unnecessary channel No. has been set in the project data. Check whether channel Nos. set in the project data are set in the Communication Settings. 	⊖ ^{*1}
492	Unusable communication units are mounted.	Unit unusable for GOT is installed. Remove the unusable unit.	⊖ ^{*1}
493	Installation of extension units may be inappropriate.	Check if the extension units are securely mounted on the GOT.	×
497	Failed to start communication driver(s).	Install the communication driver(s) again.	0
500	Warning! Built-in battery voltage is low.	The voltage of the GOT built-in battery is decreased. Replace the GOT built-in battery.	×
501		 Configure the IP filter setting again in [IP filter setting] in the utility. Configure the IP filter setting on GT Designer3, and then write the controller settings to the GOT. 	×
506	Warning! Backlight needs replacement.	The dedicated GS is notifying that the backlight power on addition time has reached the set time or more. Please consult your local Mitsubishi service center or representative. The GOT can be restored by executing the addition times reset function. The GOT can also be restored by turning off the notification signal manually. In such a case, turn it OFF after setting a value greater than the addition time.	×

Error code	Error message	Action	Channel No. storage
510	Clock data input out of range	The value that is input as clock data is out of the input enabled range. In this case, the input value is not accepted. Confirm the input range of the value to be input as clock data, and input the proper value again.	
522	Unnecessary file deleted to create new file.	The old file of different contents has been deleted and a new file has been created. Note that the old file is deleted and the new file is created if the file of the same name with different contents exists when creating files.	×
523	The read alarm log file has a different number of alarm points.	When the alarm settings (including the number of monitored alarms and the hierarchy) are changed, the alarm log file before the change is read, but alarms are collected according to the new settings. An alarm displayed after the change may differ from one before the change. Delete the alarm log file as necessary.	×
525	Unable to read/write alarm log files under different projects.	Unable to read the alarm log file saved by the different project. Confirm the alarm log file and where to store the alarm log file.	×
526	File conversion failed.	The file specified for the file conversion does not exist. Check the settings for specifying a file to be converted.	×
527	Insufficient SRAM capacity.	The capacity for the SRAM user area is insufficient. Confirm the available memory in the SRAM user area.	×
528	Error in SRAM. Failed to write data.	The error may be caused by a failure in the GOT main unit. Contact your local Mitsubishi representative.	×
529	Data error in SRAM. Check the battery life.	Error in SRAM data due to battery voltage low, etc. Confirm the battery status.	×
532	Cannot access the files. Check the memory card.	Check if the file name is appropriate. The file name contains invalid characters. For the character type and the number of characters available for file names, refer to the following. GT Designer3 (GOT2000) Screen Design Manual	×
533	Cannot access Files. Check the memory card	Insert a SD card or USB memory. Close the SD card cover to make the SD card accessable. If the SD card or USB memory have unnecessary files, delete the files.	
535	Cannot open image file.	Check if the target file is stored in the SD card or USB memory.	×
536	Image file error or invalid file format.	 Confirm whether image files in the SD card or USB memory are normal. Confirm whether any image file of invalid format is stored. 	×
562	Install the font appropriate for the specified system language.	No font appropriate for the system language specified at the system language switching is installed. Install the appropriate font.	×
565	Files for the extended system application are missing.	Install again system application (extended function) that you failed to execute.	×
571	Capacity shortage of user memory (RAM)	There is no empty area/space in D drive. Format the D drive in the memory to secure free area.	×
577	Newly readable records do not exist.	The space for reading records is insufficient. Delete unnecessary records.	×
578	The specified record name is invalid. Check the record name.	A blank record with no name and device value does not exist. Set such a blank record in advance.	×
579	Recipe is in process. Cannot operate the recipe file.	Another recipe processing is in progress. After the processing is complete, perform the recipe file operation again.	×
580	Selected recipe setting is not the recipe file operation target.	The specified recipe setting has no G2P recipe file. Specify a G2P file.	×
581	Abnormal Advanced recipe file	Recipe cannot be executed for recipe file with incorrect contents. Delete the recipe file from the SD card or USB memory.	
582	Cannot generate Advanced recipe file.	Cannot generate recipe file. Confirm the following and execute recipe processing again. • Confirm whether the SD card or USB memory is installed. • Close the SD card cover to make the SD card accessable. • Confirm the available memory of the SD card or USB memory.	
583	Unable to save device value to Advanced recipe file.	Unable to save device value to recipe file. Confirm the write-protection of the SD card or USB memory. Confirm whether the attribute of saving file is for reading only. 	×

Error code	Error message	Action	Channel No. storage
584	Advance recipe file save error	An error has occurred during the recipe file writing. Do not pull out the SD card or USB memory while the Recipe is operating.	×
585	Advanced recipe file upload error	An error has occurred during the recipe file reading. Do not pull the SD card or USB memory out while the Recipe is operating.	×
586	Specified Advanced recipe number does not exist.	The recipe of non-existing number is about to be executed. Execute recipe of existing number.	×
587	Specified record number does not exist.	The advanced record of non-existing number is about to be executed. Execute record of existing number.	×
588	Cannot save recipe data to read only record.	Saving recipe is about to be executed to the record of which recipe device value cannot be edited. Make the recipe device value of the record editable with Recipe Setting of GT Designer3 or specify the record of which recipe device value can be edited.	×
589	Recipe device save error. Recipe file does not exist.	Saving recipe is about to be executed to the recipe setting that is set for not using file. Specify the recipe setting that uses file.	×
590	Recipe device upload error. Recipe device value does not exist.	Loading recipe is about to be executed to the record of which recipe device value is not set. Specify the record of which recipe device value is set.	×
591	Advanced Recipe error. Check recipe data.	The recipe setting is not correct. Confirm the recipe setting of the project data and download it to the GOT again.	×
592	The extension specified to the recipe file is invalid.	Check if the file name is appropriate. The file name contains invalid characters. For the details, refer to the following. GT Designer3 (GOT2000) Screen Design Manual	×
593	The setting of G1P file of the original diversion is different from the project data.	The settings of the sourcMatch the settings of the advanced recipe file and those of the GOT2000 recipe file, or delete an unnecessary advanced recipe file from the memory card.e advanced recipe file are not matched with those of the GOT2000 recipe file, or incorrect.	×
595	Logging file error.	Logging file error. The setting of G1P file of the original diversion is different from the project data. The setting of G1P file of the original diversion is different from the project data. When collecting data again, delete logging files and management files.	×
596	Logging setting does not exist or setting value error.	Logging setting does not exist or setting value error. Specify an existing logging setting in the historical trend graph setting and the historical data list setting.	×
597	The specified logging ID does not exist.	 Check the logging ID in the historical trend graph setting. Specify an existing logging ID in the Logging ID External Control device. Select the graph offset function to specify an existing logging ID in the logging setting 	×
598	The specified logging setting is incompatible.	 Configure the setting so that the number of logging devices set for the logging ID exceeds that of data lines on the historical trend graph. Configure the setting so that the data type of the logging device set for the logging ID is the same as that of the device specified in the historical trend graph. 	×
601	Printer unit error.	The printer unit is installed incorrectly. The built-in flash memory of the printer unit is broken or the guaranteed life has been elapsed. Check that the printer unit is installed correctly. When the printer unit has been installed correctly, the built-in flash memory is broken or the guaranteed life has been elapsed. Replace the printer unit with new one.	×
602	Video/RGB unit not mounted	Check if the video/RGB input unit is installed. Check if the GOT used supports video/RGB input.	×
603	External I/O unit error	Check if the external I/O unit is correctly installed.	×
604	Sound output unit error	Check if the sound output unit is correctly installed.	
605	USB device I/F error	The error may be caused by a failure in the GOT. Contact your local Mitsubishi representative.	×
606	Multimedia processing unit is not mounted.	Multimedia unit is installed incorrectly. Check that the multimedia unit is installed correctly.	○ ^{*1}
607	Video · RGB input object has too many. Please reduce the number of settings.	Reduce the number of the video/RGB display objects to be displayed simultaneously.	×

Error code	Error message	Action	Channel No. storage
608	Hierarchical relationship of video · RGB input object can not be represented correctly.	Make sure that multiple video/RGB display objects do not overlap each other.	×
609	Communication/Option unit is not mounted.	Mount the communication unit or option unit correctly.	×
610	Insufficient memory capacity.	The memory capacity for the MES interface function is insufficient. Delete unnecessary files, and reserve memory.	×
611	Improper job files. Confirm job setting.	The contents for job files are unmatched with the settings for job files. Check if there are mistakes in the settings on the setting screen.	×
612	Cannot access Logging Files Check the memory card	Insert a SD card or USB memory. Close the SD card cover to make the SD card accessable. If the SD card or USB memory have unnecessary files, delete the files.	×
613	Error in writing logfile	Insert a SD card or USB memory. Close the SD card cover to make the SD card accessable. Check if the SD card or USB memory is writable.	×
614	Error in reading logfile	Insert a SD card or USB memory. Close the SD card cover to make the SD card accessable. Check if the SD card or USB memory is readable.	×
615	Cannot connect to MES Server. Check the Server.	The server does not work normally or the connection path to the server is made up incorrectly. Check the operating conditions of the server. Check the network to the server.	×
616	Cannot connect to SNTP Server. Check the Server.	The settings for the SNTP server are wrong or the network to the SNTP server is made up incorrectly. Check the operating conditions of the STNP server. Check the network to the SNTP server.	×
620	Trial connection has started.	While the license number of the GOT Mobile function is unregistered, the GOT is accessed by information devices. To use the GOT Mobile function in the full version, register the license number on the GOT.	×
630	Failed to save a video file.	Check the CF card available area, installation status, cancellation of write-protect, format status and number of saved files.	×
631	Failed to save a video file on network.	Check the activation status of personal computer linkage software in file server, the setting of Ethernet FTP function of GOT, the network setting of GOT and file server and the available area of SD card installed in the GOT main unit.	×
632	Error detected during multimedia processing.	Switch off the GOT and check the installation status of multimedia unit, or change the multimedia unit.	×
633	The version of the unit software is not the latest.	Install the latest compatible multimedia unit software using the utility of the GOT.	×
634	No space remaining in the multimedia CF card. Terminating long time recording.	Change the CF card installed on the multimedia unit, or delete unnecessary files.	×
640	An error occurred in a FTP client process.	Reconfigure the GOT (FTP client) setting. Check the operating status and network line of the FTP server. For the error details, check the GOT special register GS989 (FTP communication error notification).	×
		GT Designer3 (GOT2000) Screen Design Manual On the GOT, register the license number for the VNC server function, the remote	
641	The license key has not been registered. Confirm your license.	personal computer operation function (Ethernet), the MES interface function, or the GOT Mobile function.	×
650	The operator management information file is invalid.	Prepare a normal operator management information file and import it ,or store the operator management information file in a specified location.	×
651	Cannot access the operator management information file.	Check if the destination drive that stores the specified operator management information file is accessible by the GOT.	×
660	Failed to obtain op. authority. Server does not respond.	Make sure that the master GOT has been connected and started. Make sure that the GOT network interaction function is enabled in the master GOT.	×
670	Current alarms exceeded the max no. that can be procd. at a time.	A hundred or more system alarms have occurred simultaneously. Eliminate the cause of the output system alarms and check system alarms again.	×
697	Package writing of the old version is not allowed.	Install the latest version of GT Designer3, and then perform the operation again.	×

Error code	Error message	Action	Channel No. storage
698	Insufficient CoreOS version.	Install the latest version of CoreOS.	×
699	Insufficient BootOS version.	Install the latest version of BootOS	×
800	Abnormal module status	Refer to explanations of SB0020 on the applicable network manual. For the CC-Link IE Field Network, refer to the manual of MELSEC-Q CC-Link IE Field Network master/local module.	0
801	Abnormal baton passing status	Refer to explanations of SB0047 on the applicable network manual.	0
802	Abnormal cyclic transmission status	Refer to explanations of SB0049 on the applicable network manual.	0
803	Transient error	Refer to explanations of SB00EE on the applicable network manual.	0
804	The cable on the IN side is disconnected or is not connected.	Refer to explanations of SB0067 on the applicable network manual.	0
805	The cable on the OUT side is disconnected or is not connected.	Refer to explanations of SB0068 on the applicable network manual.	0
840	PROFIBUS master is not started.	Turn on the PROFIBUS master module.	0
841	I/O setting of the PROFIBUS master and slaves do not match.	 Use the GSD file, a configuration file provided by MITSUBISHI. (Edit prohibited) Correct relevant settings, and turn off and then on the GOT. 	0
850	CC-Link switch setting error	 Check if the switch settings have no error. Check error codes stored in SW006A. Refer to explanations of SB006A on the applicable network manual. 	
851	Abnormal cyclic transmission status	Check if terminating resistors are connected. Check error codes for the PLC CPU. Check the parameter for the PLC CPU on the master station. Check the error status of the master station. Refer to explanations of SB006E on the applicable network manual.	0
852	Abnormal host line status	Check if the cable is unplugged or not. Refer to explanations of SB0090 on the applicable network manual.	0
853	Transient error	Check the transient error occurrence status for each station stored in SW0094 to SW0097. Refer to explanations of SB0094.	0
860	Off line or the network power is off.	 Check the module status LED indicator. Turn on the network. Check that cables are connected properly. Match the communication speed of the GOT to that of the master equipment. 	0
861	No connections are established.	Check the settings of the master equipment.Turn on the master equipment.	0
862	Critical link error	The controller has failed, or has an error disabling network communication. (MAC IDs are duplicated, or Bus-off is detected.) Check the controller.	0
863	Incomplete configuration	The controller setting is not configured, or the setting is inadequate or incorrect. Review the controller setting.	0
864	Unrecoverable fault(s)	The controller has an uncorrectable error.	0
865	Recoverable fault(s)	The error is automatically corrected. If the module status LED indicator does not turn green, the controller may have a failure.	0

*1 When an error occurs, "FFH" is stored to the channel No.

PART 2

UTILITY FOR GT21

9.	UTILITY FUNCTION
10.	LANGUAGE SETTING (LANGUAGE)
11.	COMMUNICATION INTERFACE SETTING (COMMUNICATION SETTING)11 - 1
12.	DISPLAY AND OPERATION SETTINGS (GOT SET UP)
13.	SECURITY LEVEL AND OPERATOR SETTINGS (SECURITY SETTING) 13 - 1
14.	CLOCK SETTINGS AND BATTERY STATUS DISPLAY (TIME SETTING AND DISPLAY)
15.	CONTROL OF VARIOUS DATA (DATA CONTROL) 15 - 1
16.	GOT SELF CHECK (DEBUG)
17.	MAINTENANCE 17 - 1
18.	BOOTOS AND SYSTEM APPLICATION INSTALLATION USING DATA STORAGE
19.	INSTALLATION OF BOOTOS AND BASIC SYSTEM APPLICATION
20.	ERROR MESSAGE LIST 20 - 1



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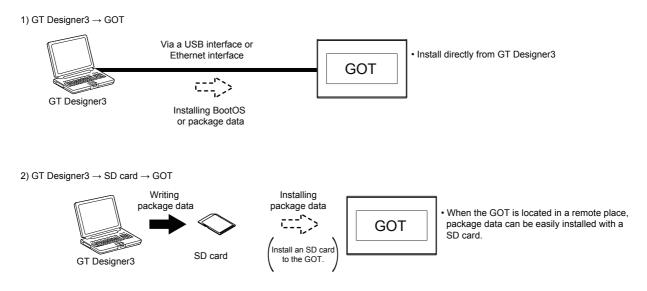
9. UTILITY FUNCTION

Utility is a function, which carries out connection of GOT and controller, screen display and operation method settings, program/data control and self-check etc.

9.1 Utility Execution

For utility execution, utility has to be displayed by installing BootOS and package data in the C drive (built in flash memory). (BootOS is installed in the GOT at factory shipment. It is not necessary to install BootOS when upgrading of it is unnecessary.)

There are following two methods for installing BootOS and package data.



Refer to the following for the installation which uses GT Designer3.

🗯 GT Designer3 (GOT2000) Help

For the installation methods of package data with an SD card, refer to the following.

➡ 18. BOOTOS AND SYSTEM APPLICATION INSTALLATION USING DATA STORAGE

9.2 Utility Function List

The items in the following list can be set/operated on the utility screens.

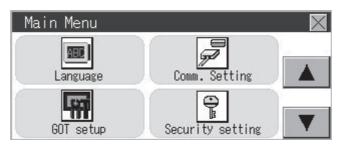
	Item		Function overview	Reference	
Language			Switching message languages	₩ 10.	
	standard I/F	setting	Assigning channel number and communication driver to communication interface	➡ 11.1	
	GOT IP Add	ress ^{*1}	Configuring GOT Ethernet setting	➡ 11.2	
	Ethernet con	nmunication ^{*1}	Displaying the contents of Ethernet setting, changing the host	➡ 11.3	
Communication	Comm. Monitor		Checking the serial communication port communication	➡ 11.4	
setting	Ethernet che	ck ^{*1}	Checking the Ethernet communication port communication	■ 11.5	
	Transparent	setting	Setting the channel No. to be used for the communication for the FA transparent function	➡ 11.6	
	Keyword		Setting or deleting sequence program protection key words and canceling sequence program protection status for the FXCPU connection	➡ 11.7	
			Setting the title display period		
	Display setti	ngs	Setting the screen save time	➡ 12.1	
			Adjusting brightness		
			Setting the buzzer sound		
GOT Setup			Setting the window move buzzer		
	Operation		Setting the key reaction speed	₩ 12.2	
			Touch panel calibration		
			Setting the utility call keys		
	Unique information		Setting the GOT ID No.	➡ 12.3	
	Security level authentication		Changing the security level	➡ 13.1	
	Operator Authentication		Operator management		
Security setting			Password change	➡ 13.2	
			Function setting		
	Login/Logou	t		• 13.3	
Time setting	Time setting			➡ 14.1	
	OS informati	on	OS information	➡ 15.2	
		Alarm Information	Deleting or copying alarm log files Converting alarm log files in G2A format \rightarrow CSV/TXT format	➡ 15.3.1	
		Recipe Information	Converting recipe files in G2P format \rightarrow CSV/TXT format Converting CSV/TXT format \rightarrow Recipe files in G2P format Deleting or copying recipe files	➡ 15.3.2	
	data	Logging Information	Deleting or copying logging files	➡ 15.3.3	
Data control		Image File Management	Deleting or copying hard copy files	➡ 15.3.4	
	SD card acce		Setting the access permission of the SD card	➡ 15.4	
	SD card format		Formatting the SD card	➡ 15.5	
	Clear data		Clearing the project data and resource data on the GOT	➡ 15.6	
	Data copy		Installing or updating package data	➡ 15.7	
	Backup/restore		Backing up or restoring sequence programs, parameters, and setting values	➡ 15.8	

Item		Function overview	Reference
	Device monitor	Device monitor of PLC, test function, current value change of the buffer memory and the buffer memory monitor of intelligent module	➡ 16.1
Debug	FX list editor	Changing parameters and sequence program of FX PLC	➡ 16.2
y	FX3U-ENET-ADP communication setting function	Configuring the communication setting for FX3U-ENET-ADP stored in the FXCPU	➡ 16.3
	Touch panel calibration	Displaying the screen for cleaning the display	➡ 17.1
Maintenance	Touch panel check	Checking the touch panel operation	➡ 17.2
	Clean	Displaying the screen for cleaning the display	➡ 17.3

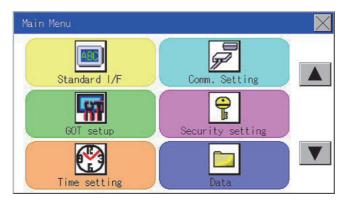
*1 Only available to Ethernet models.

9.3 Utility Display

To display setting screens for each utility, the main menu has to be displayed first. (For GT2104-P, GT2103-P)



(For GT2105-Q, GT2104-R)



■1. Main menu

The menu items that can be set at the GOT utility are displayed. Touching a menu item in the main menu will display the setting screen or following selection screen for the item.

■2. System message switch button

This button switches the language used for the utility or system alarms. Touching the [Language] button displays the Language screen.



Step 1. Touch the language button of a desired language and touch the [OK] button to select the language.

Step 2. Touching the \bowtie button switches the utility language to the selected language.

(1) When starting the GOT without selecting any language or the selected language and the installed fonts are not matched

The following screen will be displayed.

Touching the button of a desired language restarts the GOT and the language is switched to the selected one.



(2) Selectable languages

The system message switch button is displayed only for the selectable languages. The selectable languages differ depending on the fonts installed in the GOT. For the relation between the selectable languages and the fonts, refer to the following.

Help

(3) System language switching using the device

The system language can be switched using the system language switching device set with GT Designer3. For the setting method of the system language switching device, refer to the following.

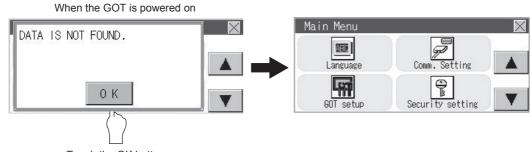
🗯 GT Designer3 (GOT2000) Help

9.3.1 Display operation of main menu

The following four types of operation can display the main menu. (Display the main menu after installing the package data from GT Designer3 to the GOT built in flash memory.)

■1. When project data is undownloaded

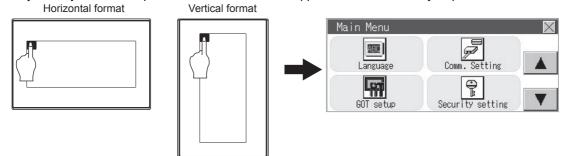
After the GOT is turned on, a dialog box for notifying of absence of project data is displayed. After the dialog box is displayed, touch the [OK] button to display the main menu.



Touch the OK button.

■2. When touching utility call key

If you touch the utility call key while user-created screen is displayed, the main menu is displayed. The utility call key is set in the position on the GOT screen upper left corner at factory shipment.



*1 The utility function windows appear in the horizontal format, and this format cannot be changed.

The utility call key can be set by the GOT utility or GT Designer3. For the setting method of the utility call key, refer to the following.

- ➡ 12.2.5 Setting the utility call keys
- 🗯 GT Designer3 (GOT2000) Help

POINT

(1) Prohibited simultaneous 2-point presses

Do not touch 2 points or more on the GOT screen simultaneously. Touching 2 points or more simultaneously may activate a part other than the touched point.

(2) Press time of the utility call key

When having set [Press time] of the utility call key setting screen to other than "0 (s)", keep pressing the touch panel for the period set to [Press time] or more before leaving the finger from the touch panel.

For utility call key setting, refer to the following.

12.2.5 Setting the utility call keys

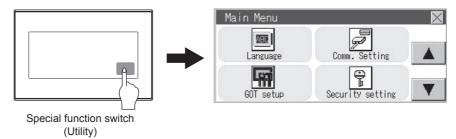
(3) When the utility call key is not set

Even when the utility call key is not set (set to the zero point), you can display the main menu by performing the following operation.

- · Pressing the special function switch set on the user-created screen
- · Selecting [Utility] from the startup mode selection screen

■3. When touching special function switch (utility)

If you touch the special function switch (utility) while user-created screen is displayed, the main menu is displayed. The special function switch (utility) can be set as a touch switch that is displayed on a user-created screen by GT Designer3.



For the details of the special function switch, refer to the following.

GT Designer3 (GOT2000) Help

POINT

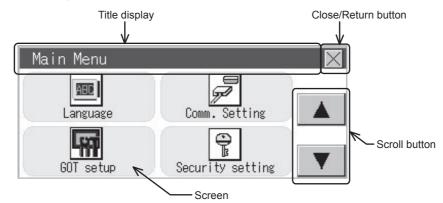
When limiting the display and operation of the utility

When limiting the display and operating users, set a password to the GOT using GT Designer3. If a user tries to display the main menu of the utility, the password is displayed. Refer to the following for the details related to the password setting.

GT Designer3 (GOT2000) Help

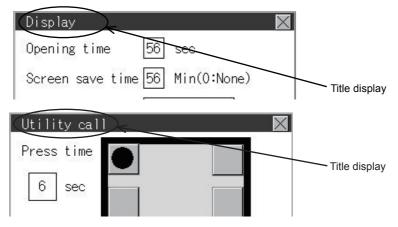
9.3.2 Utility basic configuration

The basic configuration of utility is as follows.



■1. Title display

The screen title name is displayed in title display part.



■2. Close/Return button

When a middle screen of the layers is displayed, if the \bigotimes (Close/return) button in the right corner of screen is touched, returns to the previous screen.

If this button is touched when directly displayed from monitor screen, the screen is closed and returns to monitor screen.

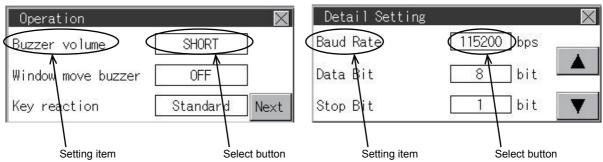
■3. Scroll button

For screens in which the content does not fit on one screen page, there is a right or down scroll button on the screen.

Scroll one line/column.

9.3.3 Basic operation of settings change

■1. Change of setting value



(1) Setting item, select button

Touch the select button to change the settings. The setting methods differ depending on the setting items.

The following types of setting method are available.

(a) Switching the setting value

The button repeats ON OFF every time it is pressed.

- (b) Enter the setting value with a keyboard. Use these keys to enter numerical values. Touch the button to display a keyboard on the GOT screen. For the keyboard operations, refer to the next page.
- (c) Move to another setting screen. Touch the button to move to each setting screen. For the setting method of each setting item, refer to the setting operation of each setting screen.

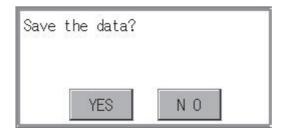
(2) 🔀 (Close/Return) button

Reflect or cancel the changed settings.

(a) (Close/Return) button

Touching this button closes the screen. Depending on the setting item, the GOT restarts.

Touching the is button displays the dialog box shown below. (If no setting is changed, the dialog is not displayed.) Operate following the message of the dialog box.



POINT

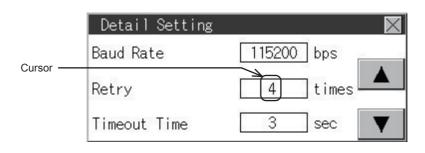
Save message screen

In a setting screen having the [Save] button shown below, touching the \bigotimes button does not show the save message screen shown above and returns to the previous screen when the setting is changed. To save the setting contents, always touch the [Save] button.

Operator edit 🛛 🗙					
OperatorName OPOO1					
Operator ID	1001	Next			
Leve 1	10	Save			

■2. Keyboard operations

- Step 1. Touch the numerical value to be changed.
- Step 2.The keyboard for entering numerical values and a cursor are displayed.The display position of the keyboard differs depending on the position of the touched numerical value.
(The keyboard is displayed at a position that does not disturb users to input numerical values.)



				0	ESC
	7	8	9	0	AC
Keyboard ->	4	5	6	+/-	DEL
	1	2	3		ENT

- Step 3. Input numerical value by the keyboard.
 - [0] to [9] Key: Enter numerical values.
 - [Enter] Key: Completes the numerical value input and closes the keyboard.
 - [Cancel] Key: Cancels the numerical value input and closes the keyboard.
 - [Del] Key: Deletes one character.
 - [AC] Key: Deletes all characters.
- Step 4. Touching the [Enter] key completes the numerical value input and closes the keyboard.

10.1 Display Language Setting

10.1.1 Display language setting function

This function allows display language selection. The items which can be set are shown below.

Item	Description	Setting range
Language	Display language in which the utility functions and dialog windows are displayed can be selected or confirmed in this menu	Japanese/English/Chinese

10.1.2 Language setting operation

■1. Language

Step 1. Touch [Language] to bring up the set up screen.

Main menu Main Menu Language Touch Language.

Step 2. Select a display language by touching the corresponding button.



Step 3. After changing the setting, touch the 🖂 button. The setting is saved and the setting screen is closed.

Language			X
	日本語	Touch	
	English		

POINT

(1) Switching the display language of the utility by devices

Any device can be used for switching the display language of the utility. For details, refer to the following.

🗯 GT Designer3 (GOT2000) Help

When using devices to switch the display language of the utility, it does not change even if the display language is switched from the GOT utility screen.

(2) Selectable languages

The system message switch button is displayed only for the selectable languages. The selectable languages differ depending on the fonts installed in the GOT. For the relation between the selectable languages and the fonts, refer to the following.

🗯 GT Designer3 (GOT2000) Help

11. COMMUNICATION INTERFACE SETTING (COMMUNICATION SETTING)

Item		Function overview	Reference
Communication setting	Standard I/F	Assigning channel number and communication driver to communication interface	➡ 11.1
	GOT IP Address ^{*1}	Configuring GOT Ethernet setting	➡ 11.2
	Ethernet communication ^{*1}	Displaying the contents of Ethernet setting, changing the host	➡ 11.3
	Comm.Monitor	Checking the serial communication port communication	➡ 11.4
	Ethernet check*1	Checking the Ethernet communication port communication	➡ 11.5
	Transparent mode	Setting the channel No. to be used for the communication for the FA transparent function	➡ 11.6
	Keyword	Setting or deleting sequence program protection key words and canceling sequence program protection status for the FXCPU connection	₩ 11.7

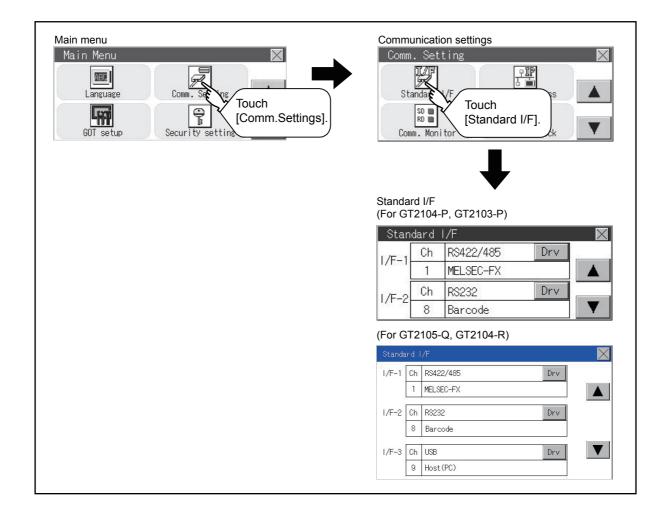
The following communication interface setting can be configured.

*1 Only available to Ethernet models.

11.1 Standard I/F

11.1.1 Standard I/F functions

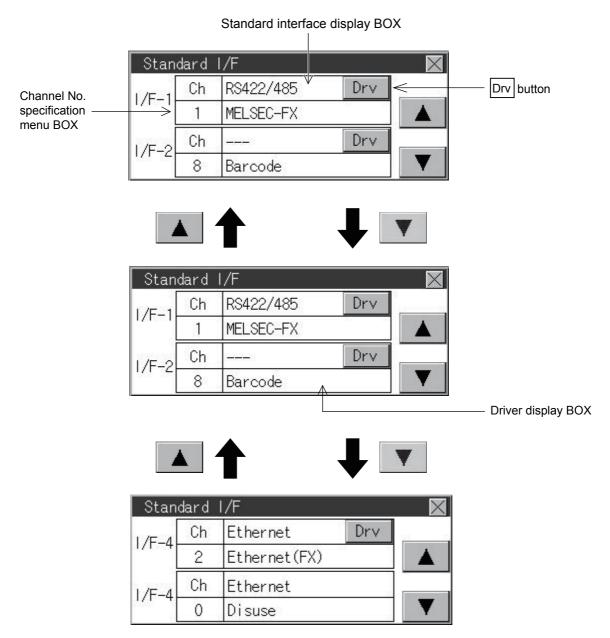
Function	Description
Channel no. display	Displays the channel number (CH No) that has been assigned by drawing software
Communication driver display	Displays the communication driver that has been assigned by drawing software
Communication parameters display	Displays the communication parameters of the controllers that has been assigned by drawing software



11.1.3 Display contents of standard I/F

Described below are the display items on the standard I/F menu and their functions.

■1. Display item



(1) Standard interface display BOX

The standard interface includes the following four types.

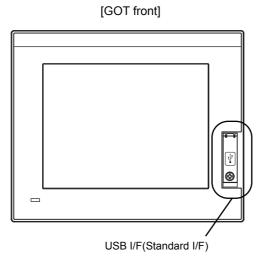
Standard I/F-1(RS-422/485, RS-232 or RS-422): For communication with PLC, microcomputer and other equipment Standard I/F-2(RS-232): For communication with other equipment, bar code reader, RFID and transparent Standard I/F-3(USB): For communication with PC (drawing software) and transparent Standard I/F-4(Ethermet): For communication with PC (drawing software) and other equipment

Available standard interfaces differ depending on the GOT model used.

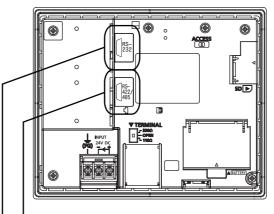
Available, X: Not available

GOT	Standard I/F-1			Standard I/F-2	Standard I/F-3	Standard I/F-4
GOT	RS-422/485	RS-232	RS-422	RS-232	USB	Ethernet
GT2105-QTBDS GT2105-QMBDS	0	×	×	0	0	×
GT2104-RTBD	0	×	×	0	0	0
GT2104-PMBD	0	×	×	×	0	0
GT2104-PMBDS	0	×	×	0	0	×
GT2104-PMBDS2	×	0	×	0	0	×
GT2104-PMBLS	×	×	0	×	0	×
GT2103-PMBD	0	×	×	×	0	0
GT2103-PMBDS	0	×	×	0	0	×
GT2103-PMBDS2	×	0	×	0	0	×
GT2103-PMBLS	×	×	0	×	0	×

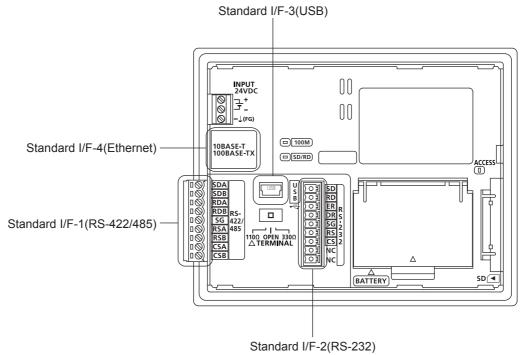
(a) For GT2105-QTBDS, GT2105-QMBDS



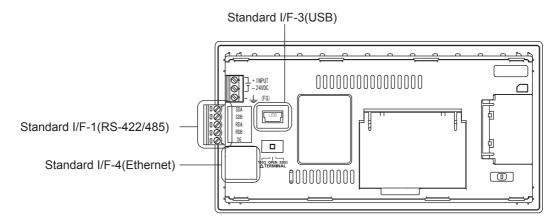
[GOT back]



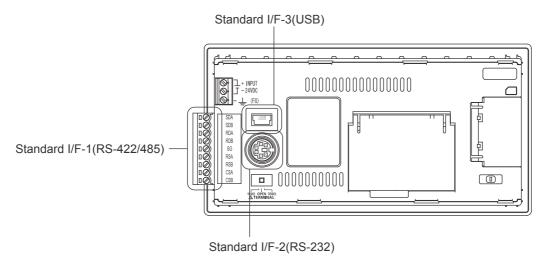
RS-422/485 I/F(Standard I/F) RS-232 I/F(Standard I/F)

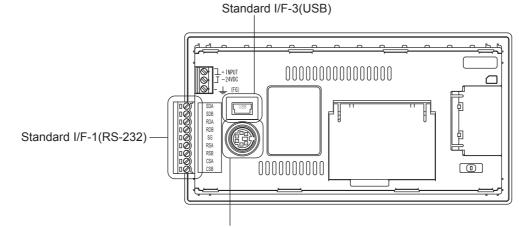


(c) For GT2104-PMBD



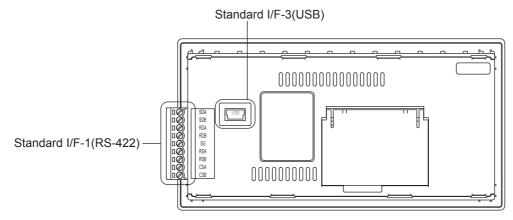
(d) For GT2104-PMBDS



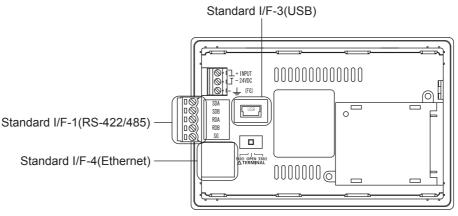


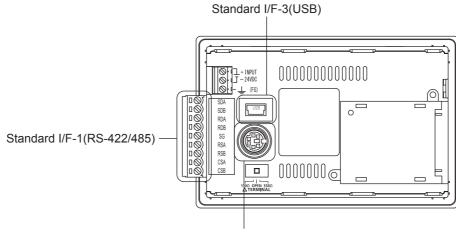


(f) For GT2104-PMBLS



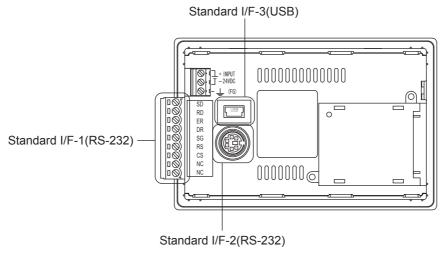
(g) For GT2103-PMBD



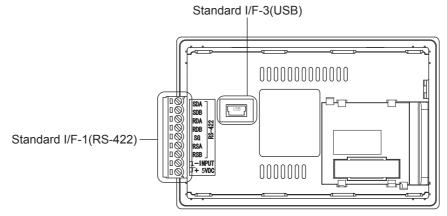




(i) For GT2103-PMBDS2



(j) For GT2103-PMBLS



(2) Channel No. specification menu BOX

Set a channel number to be used by the standard interface.

11.1.5 Channel setting operation

For the detail of the drivers which can be assigned to each channel, refer to the following.

	(3) Driver display BOX
0:	Set when the communication interface is not used.
1, 2:	Set when connecting to a controller.
8:	Set when connecting to a bar code reader, RFID or GOT (Extended Computer).
o *1	Set when connecting to a PC (drawing software).
9: ^{*1}	• When multiple GOTs are connected, set this channel for the connection with the 2nd GOT.
A:	Set this channel when connecting to a printer.
*:	Set this channel when the Ethernet download function is used.

• "9" is automatically set to the standard I/F-3(USB).

(3) Driver display BOX

- (a) The driver display box displays the names of communication drivers assigned to channels or the communication drivers set in the communication settings of drawing software. For details of the communication drivers to be displayed, refer to the following.
 - GT Designer3 (GOT2000) Help
- (b) "Disuse" is displayed in the driver display box in the following cases:
 - The communication driver is not installed.
 - 15.2 OS information
 - "0" is set in the channel number specification menu box.

(c) The channel number of the standard I/F-3(USB) is fixed to "9".

(4) Drv button

Displays the driver setting screen.

Select the driver to use on the driver setting screen.

11.1.6 Driver setting operation

The Drv button is displayed in the following case.

• When a channel number other than channel 0 or 9 is set to the standard I/F-1, standard I/F-2, and standard I/F-4

POINT

Precautions for communication between GOT and connected devices

- (1) Installing [Communication driver] and downloading [Communication Settings]
 - To perform communication with the connected device, the following actions are necessary. 1) Installing communication drivers (Up to 2 drivers)
 - 2) Assigning channel numbers and communication drivers to communication interfaces

3) Downloading contents (project data) assigned in step 2)

Perform 1), 2) and 3) with drawing software.

	CH No	•	Driver		
I/F-1: RS422/485	1	•	MELSEC-FX	•]	Detail Setting
I/F-2: RS232	9	•	Host (PC)	•]	Detail Setting
I/F-3: USB	9	Ŧ	Host (PC)	•	
(/F-4: Ethernet	0	-	None	•	Detail Setting

For details, refer to the following.

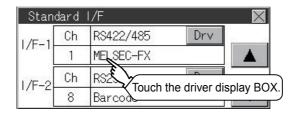
- GT Designer3 (GOT2000) Help
- (2) When the communication settings have not been downloaded

If the communication settings have not been downloaded with drawing software, set the communication settings on the drawing software or in the GOT utility screen.

11.1.4 Detail information setting operation

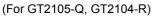
■1. For Standard I/F-1(RS422) and Standard I/F-2(RS232)

Step 1. Touch each driver display box of the standard I/F-1 and standard I/F-2.



Step 2. The screen jumps to the detailed information screen and the communication parameter will appear. (For GT2104-P and GT2103-P)

Detail Setting	\times
Baud Rate	[115200] bps
Retry	2 times
Timeout Time	3 sec 🔻
Detail Setting	
Retry	2 times
Timeout Time	3 sec
Delay Time	0 msec 🔽



Baud Rate	115200 bps
Retry	2 times
Timeout Time	1 msec
Delay Time	0 msec

Step 3. Touch the numerical values of baud rate to switch them repeatedly.

Example: 4800 bps 9600 bps 19200 bps

The numerical values are set using the ten-key depending on the setting.

0				ESC
7	8	9	0	AC
4	5	6	+/-	DEL
1	2	3		ENT

"0" to "9":

Use these keys to enter numerical values. Enter "0" to disable the screen saver function. "ESC":

Closes the ten-key window without saving any value entered "AC":

Deletes the entire string of numerical characters that are being entered "DEL":

Deletes a digit from a string of numerical characters that are being entered "ENT":

Enters the value for the clock that has been entered and closes the ten-key pad window "+/-":

Switches between positive and negative values. (Only positive values are valid for the clock setting.) ".":

Invalid key (not used)

Step 4. Touch the X button to display the window confirming whether to save the settings.

Save	the data	?		
	YES		NO	

Step 5. Touch the [YES] button to save the settings and restart. Touch the [NO] button to discard the changes.



POINT

Communication parameters

The types of items that are in the communication parameter setting menu depend on the type of communication driver that is installed on the GOT in use.

Refer to the section below for the setting contents of various drivers.

🗯 GT Designer3 (GOT2000) Help

COMMUNICATION INTERFACE SETTING (COMMUNICATION SETTING)

2. For Standard I/F-4(Ethernet)

Step 1. Touch the driver display box of a communication parameter to be set.

I/F-3	Ch	USB		10
1/1 -3[9	Host(PC)		
I/F-4	Ch	Ethernet	Drv	
	2	Ethernet(FX)		T

Step 2. The screen is switched to the communication detail setting. Set the communication parameter on this screen.

GOT IP address setting

➡ 11.2 GOT IP Address Setting (Ethernet models only)

Detail Setting	\times
Retry	3 times
Startup Time	3 sec
Timeout Time	3 sec 🔻
Detail Setting	×
GOT NET No.	0
GOT No.	1
GOT Port No.	5019
Detail Setting	×
GOT No.	
GOT Port No.	5019
Delay Time	0 msec 🔻

Step 3. When the \bowtie button is touched, it returns to the previous screen.

Step 4. Touch the X button to display the window confirming whether to save the settings.

Save	the	data?		Î
		YES	Ν Ο	

Step 5. Touch the [YES] button to save the settings and restart. Touch the [NO] button to discard the changes.

Now rebooting.

POINT

Communication parameter setting by drawing software

Set the communication parameter for each communication driver by selecting [Common] \rightarrow [Controller Setting].

👄 GT Designer3 (GOT2000) Help

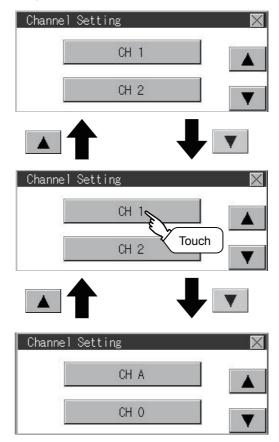
11.1.5 Channel setting operation

■1. Channel number setting operation

Step 1. Touch the channel No. specification menu box to be set.

I/F-1	Ch	RS422/485	Drv	13
175-1	1	MELSEC-FX		
I/F-2	Ch	RS232	Drv	
	89	Barcode		Ţ

Step 2. When the channel setting window appears, select the channel number.



Step 3. When the channel number is selected, the settings are fixed and the window returns to the previous one. Therefore, touch the 🔀 button.

Stan	dard	I/F		\times
 /F-1	Ch	RS422/485	Drv	12 13
	1	MELSEC-FX		
1/F-2	Ch	RS232	Drv	
	8	Barcode		T

Step 4. Touch the X button to display the window confirming whether to save the settings.

Save	the data?		
	YES	NO	1

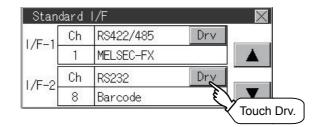
Step 5. Touch the [YES] button to save the settings and restart. Touch the [NO] button to discard the changes.

Now rebooting.

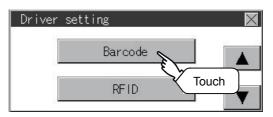
11.1.6 Driver setting operation

■1. Driver setting operation

Step 1. Touch [Drv] button to bring up the driver setting window.



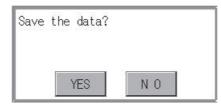
Step 2. The available driver names are displayed on the driver setting screen. Select the driver to use.



Step 3. When the channel number is selected, the settings are fixed and the window returns to the previous one. Therefore, touch the 🔀 button.

Stan	dard	I/F		\times
	Ch	RS422/485	Drv	12
175-1	1	MELSEC-FX		
1/F-2	Ch	RS232	Drv	
1/1 2	8	Barcode		

Step 4. Touch the 🖂 button to display the window confirming whether to save the settings.



Step 5. Touch the [YES] button to save the settings and restart. Touch the [NO] button to discard the changes.

Now	rebooting.	

11.2 GOT IP Address Setting (Ethernet models only)

This section describes the GOT Ethernet setting.

The GOT Ethernet setting can also be set with drawing software. For details, refer to the following.

🗯 GT Designer3 (GOT2000) Help

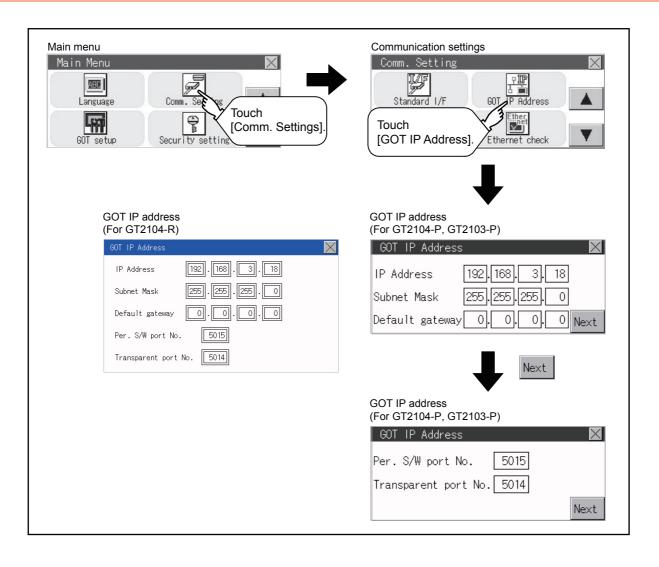
11.2.1 Standard

The table below shows the communication setting items and setting range.

Communication setting items	Setting range	Remark
IP address	0.0.0.1 to 223.255.255.254	
Subnet mask ^{*1}	192.0.0.0 to 255.255.255.252	If a value outside the setting range is entered, the error message "SET NUMBER IS INCORRECT." appears.
Default gateway ^{*1}	0.0.0.1 to 223.255.255.254	
Per. S/W port No.	1024 to 5010, 5014 to 49152, 49171 to 65534	Set the port number for the GOT download.
Transparent port No.	1024 to 5010, 5014 to 49152, 49171 to 65534	Set the port number for the transparent of the GOT.

*1 Set the value "0.0.0.0" when not using the subnet mask pattern and default router IP address.

11.2.2 Display operation of GOT IP address



11.2.3 Setting operation

Step 1. Touch the numerical part of the octet to be changed among the 1st to 4th octets. (For GT2104-P, GT2103-P)

Transparent port No. 5014

	GOT IP Address IP IP Address 192, 168, 3, 18 Subnet Mask 255, 255, 255, 0 Default gateway Image: Constraint of the octet to be changed.
(For GT2104-R)	
	GOT IP Address Image: Second state Image: Second state

Step 2. When the ten-key pad appears, enter a numerical value in up to 3 digits, and touch the Enter key.

			0	ESC	
7	8	9	0	AC	
4	5	6	+/-	DEL	
1	2	3		EN	
				e	Touch

If a numerical value outside the setting range is entered, the following error message appears. Enter a numerical value again.



For the details of the setting range, refer to the following.

16.3.1 Specifications

Step 3. For GT2104-P, GT2103-P, touch the [Next]. (For GT2104-P, GT2103-P)

GOT IP Addres	ss 🛛 🔀
IP Address	192.168.3.18
Subnet Mask	255,255,255,0
Default gatewa	ay 0. 0. 0. 0 Next

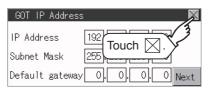
(For GT2104-P, GT2103-P)

GOT IP Address	\times
Per. S/W port No. 5015	
Transparent port No. 5014	
	Ne×t

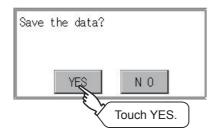
(For GT2104-R)

GOT IP Address	\times
IP Address 192.168.3.18	
Subnet Mask 255 . 255 . 255 . 0	
Default gateway 0.0.0.0	
Per. S/W port No. 5015	
Transparent port No. 5014	

- Step 4. If necessary, change the setting of [Per. S/W port No.] and [Transparent port No.].
- Step 5. After the setting change, touch the [×] key.



Step 6. When the screen shown below appears, touch the [YES] key.



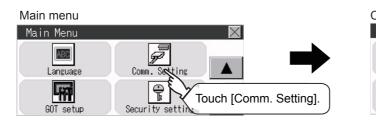
11.3.1 Setting function for Ethernet communication

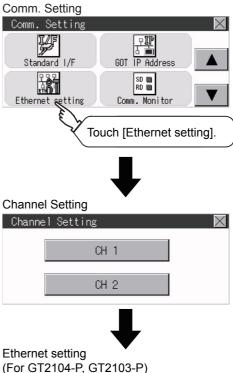
The contents of the Ethernet set in GT Designer3 can be checked. The setting of the host station can be changed.

For the Ethernet setting, refer to the following.

```
GOT2000 Series Connection Manual for the controller used
```

11.3.2 Display operation of Ethernet communication





No HO	DST (N/V	I ST	Model	IP Address
1	* 1	1	FX5CPU	192.168.3.250
2	1	2	FX5CPU	192.168.3.251

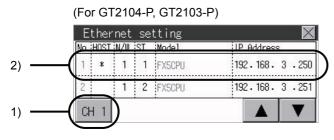
Ethernet setting

No.	HOST	N/W	ST	Mode 1	IP Address
1	*	1	1	FX5CPU	192.168.3.250
2		1	2	FX5CPU	192.168.3.251
3		1	3	FX5CPU	192.168.3.252
4	1	1	4	FX5CPU	192.168.3.253

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11.3.3 Display contents of Ethernet setting

The following describes the setting items and the display contents of the Ethernet setting.



No.	HOST	N/W	ST	Mode 1	IP Address
1	*	1	1	FX5CPU	192.168. 3 .250
2		1	2	FX5CPU	192.168.3.251
3		1	3	FX5CPU	192.168.3.252
4	1	1	4	FX5CPU	192.168.3.253

1) Channel select tab

Channels can be switched.

Switching to the channel which does not have the Ethernet setting is not available.

2) Ethernet setting items

The contents of the Ethernet setting configured in GT Designer3 are displayed. Changing [Host], [Net No.], [Station No.] and [IP Address] are available.

- 1. Change of host
- 2. Change of Net No.
- 3. Change of station No.
- ➡ ■4. Change of IP address

POINT

(1) How to cancel the change of the setting in the [Ethernet setting] screen.

Cancel the settings changed in the [Ethernet setting] screen with the [Restore default settings] button.

The changed settings remain until they are canceled with the [Restore default settings] button.

The changed settings are not canceled even if writing the project data or system application to the GOT.

(For GT2104-R)

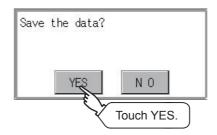
When the project data is written to the GOT without canceling the changed settings, those changed settings are reflected to the Ethernet setting of the written project data. (If the written project data does not have a channel with same Ethernet settings as that of the channel changed in [Ethernet setting] screen, the changed settings are not reflected.)

■1. Change of host

Step 1. Touch the device to be set as the host.

Ethernet setting 🛛 🛛 🔀				
No HOST	N/W	ST	Model	IP Address
1 *	1	1	FX5CPU	192.168.3.250
2	3	2	FX5CPU	192.168.3.251
CH 2		1.	,	

Step 2. After the setting change, touch the [x] key. When the screen shown below appears, touch the [YES] key.

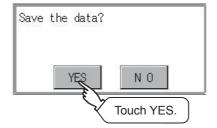


■2. Change of Net No.

Step 1. Touch the Net No. to be changed, and input the network No. to be changed by the numeric keypad displayed.

E	Ethernet setting 🛛 🛛 🗙					
No.	HOST	OST:N/W ST Model IP Address				
1	*	1	1	FX5CPU	192.168.3.250	
2		1		FX5CPU	192.168.3.251	
Cł	12		\sim	1.		

Step 2. After the setting change, touch the [x] key. When the screen shown below appears, touch the [YES] key.

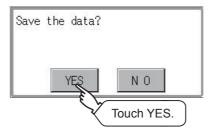


■3. Change of station No.

Step 1. Touch the station No. to be changed, and input the station No. of the destination Ethernet module to be changed by the numeric keypad displayed.

E	Ethernet setting 🛛 🛛 🔀						
No.	HOST	N/W	N/W ST Model IP Address				
1	*	1	1	FX5CPU	192.168.3.250		
2		1	2	EVPU	192.168.3.251		
CH	12			√1.			

Step 2. After the setting change, touch the [x] key. When the screen shown below appears, touch the [YES] key.



■4. Change of IP address

Step 1. Touch the IP address to be changed, input the destination IP address to be changed by the numeric keypad displayed.

Ε	ther	net	set	ting	\mathbf{X}
No.	HOST	N/W	ST	Model	IP Address
1	*	1	1	FX5CPU	192.168. 3.250
2		1	2	FX5CPU	192.168.3.251
CH	12				▲ ▼ [∨] 1.

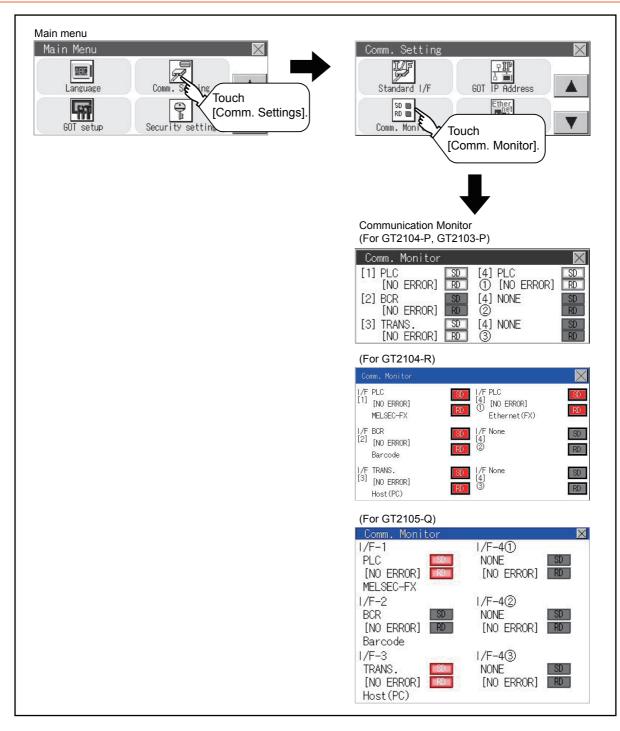
Step 2. After the setting change, touch the [x] key. When the screen shown below appears, touch the [YES] key.

Save t	he data?		
	YES	N O	
	-Y	Touch YES.)

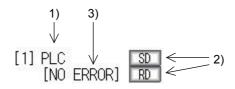
11.4.1 Communication monitor functions

Function	Description
Communication port-selection status display	Indicates the connection status of Standard I/F-1, I/F-2, I/F-3 and I/F-4.
Communication status display	Displays the communication status (SD: send, RD: receive)
Communication error status display	Displays an error message when a communication error occurs

11.4.2 Communication monitor display operation



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1) Connection status of the communication ports

Indicates the connection status of Standard I/F-1 and I/F-2.

Listed in the table below are display items and the connection status (channel number).

Display item	Channel number	Remark
PLC	Ch1	"PLC" appears when connected to a controller (PLC or microcomputer)
BCR	Ch8	"BCR" appears when connected to a barcode reader or RFID
TRANS.	Ch9	"TRANS." appears when the controller that is allocated to one of the communication ports supports the transparent mode "TRANS." automatically changes to "PC" when communicating with drawing software
PC	Ch9	"PC" appears when connected to a screen design software.
PRT	ChA	Appears when connected to a printer.

2) Communication status

Displays the communication status of each communication port.

The SD and RD symbols appear in black on gray (**SD**) while data are not being sent or received. While data are being sent or received, the <u>SD and RD symbols</u> appear as follows.

GT2104-P, GT2103-P: in black on white (SD, RD

GT2105-QMBDS: in white on light gray (

GT2105-QTBDS, GT2104-R: in white on red (SD), RD).

They may appear lit depending on the communication status.

The SD and RD symbols on the screen indicate normal communication or cable disconnection. Setting example

Port	Channel number	Controller type	
I/F-1	Ch1	MELSEC-FX	
I/F-2	Ch8, Ch9	-	

■ [During normal communication (with connection to a device that supports the transparent mode)]



The SD and RD of the I/F-1 flash.

■ [When the connecting cable with the controller is disconnected]

[1]	PLC	SD
20823	[TIME OUT]	RD

Only the SD of the I/F-1 flashes.

3) Communication error status

Communication error status of each port is displayed on this screen. The following table describes the communication status that each display item shows.

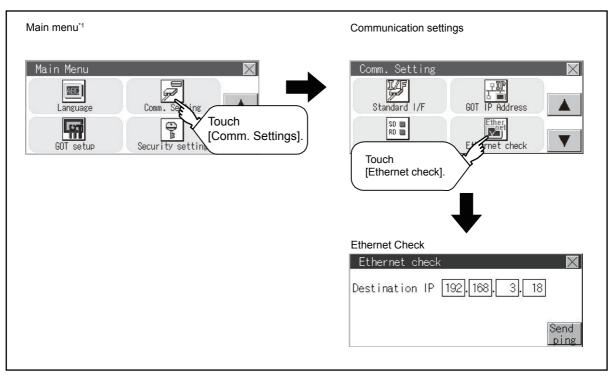
Display item	Status	Action
NO ERROR	No error	Communication is executed normally.
ERR Ovr.	Overrun error	The receive data is sent continuously with a short interval. Let the baud rate (communication speed) be equivalent between the GOT and counterpart equipment.
ERR Frm.	Framing error	The communication frames of GOT and PLC are inconsistent. Confirm the communication settings of GOT and PLC, such as data length, stop bit and baud rate.
ERR Prt.	Parity error	The parity check conditions of GOT and PLC are inconsistent. Let the parity check condition (odd or even) of GOT and PLC be consistent.
ERR Text	Text error	The sum data is inconsistent. Or the contents of the receive data are not consistent with the send command from the GOT. Let the communication settings and contents of data be consistent between the GOT and counterpart equipment. (If NAK is received while the GOT is connected to the microcomputer board, a text error occurs.)
TIME OUT	Communication timeout	Though receiving is started, receive data is not sent. Check the wiring between the GOT and its communication target. (When the GOT is connected to the microcomputer board, confirm the terminator, CR, wiring, etc.)
ERR Line	Control line error	The control line is not operating correctly. Confirm the wiring of the control line.
ERR Cmd.	Command error	A command contained in the receive data is not consistent with the send command from the GOT.

11.5 Ethernet Check (Ethernet models only)

■1. Ethernet check function

The Ethernet status check function sends a ping to check the connection status of Ethernet.

■2. Display operation of Ethernet check



- *1 Refer to the following for display operation of main menu.
 - 9.3 Utility Display

COMMUNICATION INTERFACE SETTING (COMMUNICATION SETTING)

■3. Operation of Ethernet status check

Step 1.If the select button of [Destination IP] is touched, a keyboard is displayed.
Enter the IP address of the other terminal with the keyboard.
<Default: 192.168.3.39>

Ethernet check	\times
Destination IP [192.[168]. 3. 18	
	Send ping

- *Step 2.* If the [Send ping] button is touched, a ping is sent to the IP address entered in [Destination IP]. The timeout time is 5sec.
 - When the communication is completed The [Response received.] dialog box is displayed.
 - When a communication error occurs The [Timeout occurred.] dialog box is displayed.

Ethernet check	\times
Destination IP 192.168. 3.18]
Touch	Send 5 ping

11.6 Setting the Transparent Mode

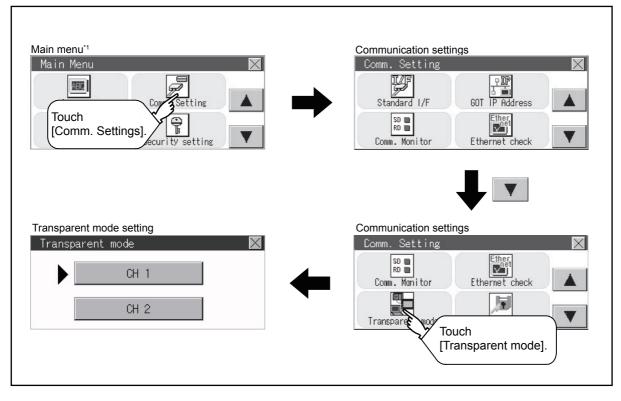
■1. Function of the transparent mode

When using the multi-channel function, the channel No. of a controller to which the FA transparent function is executed can be set. For the multi-channel function and the FA transparent function, refer to the following.

	GOT2000 Series	Connection Manual	(Mitsubishi Product)) For GT	Works3 Version1
--	----------------	--------------------------	----------------------	----------	-----------------

Function	Description	Setting range
ChNo.	The channel No. of a controller to which the FA transparent function is executed can be set.	1/2 (Default: 1)

2. Display operation of the transparent mode setting

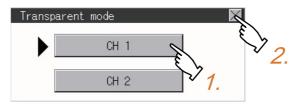


*1 Refer to the following for display operation of main menu.

9.3 Utility Display

3. Transparent mode setting operation

Step 1. When the transparent ChNo. (numerical part) below is touched, the screen for selecting a communication driver is displayed. Select the channel to execute the FA transparent function.



Step 2. Touching the 🖂 button restarts the GOT when the settings have been changed.

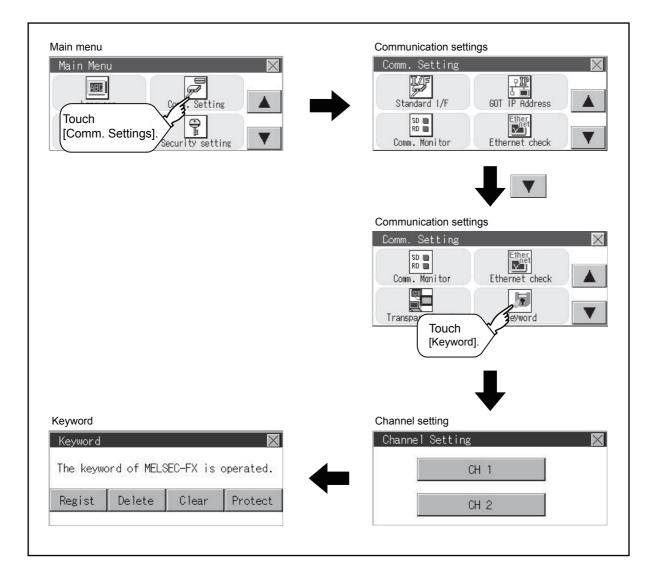
11.7 Keyword

11.7.1 Keyword functions

The operation related to a keyword of the FX series PLC can be performed.

Function	Description		
Regist	Keyword is registered.		
Delete	Registered keyword is deleted.		
Clear	Keyword protection is cleared.		
Protect	A keyword with cleared protection is reactivated for protection.		

11.7.2 Keyword display operation



11.7.3 Regist

Keyword is registered.

Step 1. Touch "Regist" to display the selection screen for the registration. For the FX series PLC, which is not compatible with Customer Keyword, the keyword entry screen of [Step3] is displayed. Start the operation from [Step3].

For the Customer Keyword compatible models, refer to the manual of the PLC to be used.

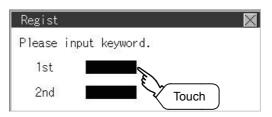


Step 2. Select [Keyword] or [Keyword+Custom]. To register only Keyword and 2nd keyword, touch [Keyword]. To register Customer Keyword, touch [Keyword+Custom].

Regist		\times
	Keyword	
	Keyword+Custom.	

Step 3. Input a keyword.

Touch the display part of the keyword to be registered.

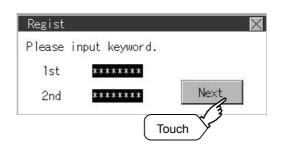


Step 4. The keyboard for entering a keyword is displayed. Character types to be input can be changed by touching the [A-F] or [0-9] button. Enter a keyword and touch the [ENT] key. For the keyword, 8 digits from 0 to 9 or A to F must be set.

				ESC
7	8	9	0	AC
4	5	6		DEL
1	2	3	A-F	ENT
			Touch	4

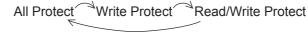
Step 5. After completing the keyword entry, touch [Next].

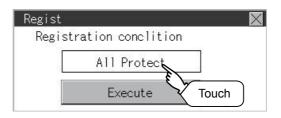
When [Keyword+Custom] is selected on the selection screen for the registration, the Customer Keyword entry screen is displayed. Enter it in the same way as for Keyword and 2nd keyword.



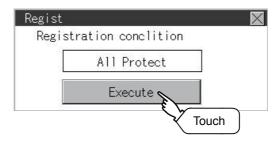
Step 6. Set Registration conciliation.

Touch Registration conciliation to change the setting contents.

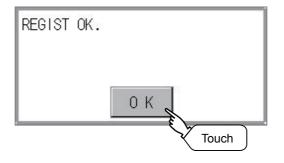




Step 7. After setting Registration conciliation, touch the [Execute] key. The registration of the keyword is completed.



Step 8. The registration of the keyword is completed. Touch [OK].



POINT

(1) Selection availability of Registration conciliation

The following table lists the PLCs that can select Registration conciliation.

	Setting			
Target PLC	When keyword and 2nd keyword are registered	When only keyword is registered		
FX PLC compatible with 2nd keyword ^{*1}	Registration options ^{*2} can be selected.	Registration options ^{*2} cannot be		
FX PLC not compatible with 2nd keyword ^{*1}	-	selected.		

- *1 Refer to the manual for the PLC in use for the models that are compatible with the 2nd keyword.
- Registration options can be selected among "R/W Protect", "Write Protect", or "All online operation protection". For access restrictions of each setting, refer to the manual of the PLC to be used.

(2) Selection of keyword protection level

For the devices which can perform the online operation of FX PLC, 3 levels of protection can be set.

When the monitoring or setting change by online devices is needed, set the keyword taking the following into consideration.

(a) When only keyword is registered

Protection level is selected by the head character of keyword. All Protect: Set the keyword starting with one of A, D to F, or 0 to 9. Read/incorrect write protection: Set the keyword starting with B. Erroneous write prohibition: Set the keyword starting with C.

(b) When keyword and 2nd keyword are registered

(3) Applicability of monitoring for each keyword protection level

The applicability of monitoring for each protection level is as follows.

Item		When only	y keyword is	registered	When keyword and 2nd keyword are registered			Keyword
		All operation protect	Read/ Incorrect write protection	Erroneou s write prohibitio n	All online operation protectio n	R/W Protect	Write Protect	unregistere d/protection canceled
Device r	monitoring	0	0	0	\times	0	0	0
Device chang	T, C setting values and file register (from D1000)	×*1	×*1	× *1	×	0	0	0
e	Other than the above	0	0	0	×	0	0	0

*1 When the T, C set values are specified indirectly, changing devices is available.

(4) Difference between "All online operation protection" and "All Protect"

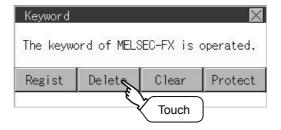
When "All online operation protection" is selected, both device display and input by the programming tool or GOT are prohibited.

When "All Protect" is selected, device display and input are possible although operations by the programming tool are all prohibited.

11.7.4 Delete

Registered keyword is deleted.

Step 1. Touch [Delete] to display the keyword entry screen.



Step 2. Input a keyword.

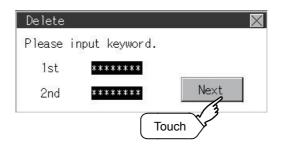
Touch the display part of the registered keyword.

	Delete	\times
	Please input	keyword.
	1st	
	2nd	Touch
	Target DLC	Cotting
	Target PLC	Setting
FX PLC compatible with 2nd keyword		Input a keyword to be deleted.
FX PLC not compatible with 2nd keyword		Input a keyword to be deleted only into "keyword". "2nd keyword" is ignored.

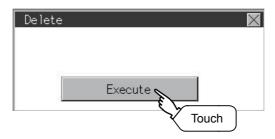
Step 3. The keyboard for entering a keyword is displayed. Enter a keyword and touch the [ENT] key. Character types to be input can be changed by touching the [A-F] or [0-9] button.

				ESC
7	8	9	0	AC
4	5	6		DEL
1	2	3	A-F	ENT
			Touch	5

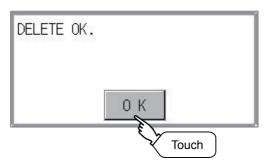
Step 4. After completing the keyword entry, touch [Next].



Step 5. Touch the [Execute] key.



Step 6. The keyword is deleted. Touch [OK].



11.7.5 Clear

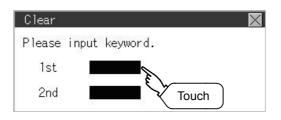
To access an FX PLC where a keyword has been registered, keyword protection is cancelled.

Step 1. Touch [Clear] to display the keyword entry screen.



Step 2. Input a keyword.

Touch the display part of the registered keyword.

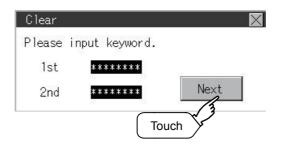


Target PLC	Setting
FX PLC compatible with customer keyword	Input a keyword or customer keyword to clear the protection.
FX PLC compatible with 2nd keyword	Input a keyword to clear the protection.
FX PLC not compatible with 2nd keyword	Input a keyword into "keyword" to clear the protection. "2nd keyword" is ignored.

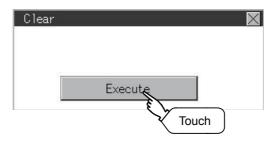
Step 3. The keyboard for entering a keyword is displayed. Enter a keyword and touch the [ENT] key. Character types to be input can be changed by touching the [A-F] or [0-9] button.

				ESC
7	8	9	0	AC
4	5	6		DEL
1	2	3	A-F	ENT
			Touch	43

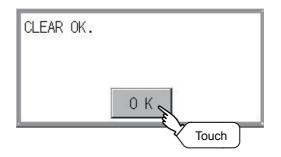
Step 4. After completing the keyword entry, touch [Next].



Step 5. Touch the [Execute] key.



Step 6. The protection is cleared. Touch [OK].



11.7.6 Protect

A keyword with cleared protection is reactivated for protection. Keyword protection function is valid when the 2nd keyword is registered.

Step 1. Touch [Protect] to switch to the keyword protection status.



Step 2. The keyword is protected. Touch [OK].

PROTECT	ОК.	
	0 K	



12. DISPLAY AND OPERATION SETTINGS (GOT SET UP)

The setting screens related to the display or operation can be displayed from the utility screen. In the setting screen for display and the setting screen for operation, the following settings can be set.

Item	Description	
	Setting the startup screen display time and screen saving time	
Display settings	Brightness Turning on/off the POWER LED (GT2105-Q only)	➡ 12.1.1
	Setting buzzer volume, window move buzzer, and key reaction	➡ 12.2.3
Operation	Touch panel calibration	➡ 12.2.4
	Utility call key	➡ 12.2.4

12.1 Display Settings

12.1.1 Display functions

Setting regarding display is possible.

The items which can be set are described below. If touch the each item part, the respective setting becomes possible.

Item	Description	Setting range
Opening time	The title display period at the main unit boot can be set.	0 to 60 seconds (At factory shipment: 1 seconds)
Screen save time	The period from the user stops the touch panel operation till the screen save function starts can be set.	0 to 60 minutes (At factory shipment: 0 minute)
Brightness	Brightness can be adjusted. ■ ■2. Brightness	-

POINT

(1) Display setting by GT Designer3

Set title display period, screen save time and screen save backlight by selecting [Common] \rightarrow [GOT Environmental Setting] \rightarrow [GOT Setup...] on GT Designer3.

When change a part of the setting, change the setting by the GOT display setting after downloading the project data.

🗯 GT Designer3 (GOT2000) Help

(2) Screen save time

By using the system information function, the screen save function can forcibly enabled from a controller (Forced Screen Saver Disable Signal) or the screen saving time set in the utility can be disabled (Automatic Screen Saver Disable Signal).

🗯 GT Designer3 (GOT2000) Help

Main menu ^{*1}	GOT setup
	etting
	(For GT2105-Q) Display X Opening time 56 sec Screen save time 56 Min(0:None) Brightness Setting POWER LED OFF

- *1 Refer to the following for display operation of main menu.
 - 9.3 Utility Display

12.1.3 Display setting operations

■1. The title display period and screen saving time

Step 1. If the setting items (numbers) are touched, a keyboard is displayed. Input numeric with the keyboard.

Display	
Opening time	56 - E - J
Screen save ti	me [56] Min(0:None)
Brightness	Setting

Step 2. Set the title display period with the ten-key pad window and touch "ENT".

			0	ESC
7	8	9	0	AC
4	5	6	+/-	DEL
1	2	3		ENT
Touch				

■2. Brightness

Step 1. Touch [Brightness] to bring up the Brightness setting window.

Display	X
Opening time	56 sec
Screen save tim	me 56 Min(0:None)
Brightness	Setting
-	×7.

Step 2. The Brightness setting window is displayed. Touch an item to be set. (a) Test Color (GT2104-P, GT2103-P only)

Touch this item to change the backlight color, [White], [Green], [Red], [Pink], or [Orange], that is used for an color test.

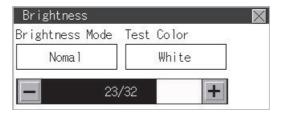
(b) Brightness Mode

Touch this item to switch [Normal] or [Low Brightness].

(c) Brightness

Touch the [+] and [-] keys to adjust the brightness of the screen.

(For GT2104-P, GT2103-P)



12

(For GT2105-Q, GT2104-R)

Standard
10/32
+

Step 3. Touch the \bigotimes button to reflect the setting. (For GT2104-P, GT2103-P)

Brightness	T 1 0	1	1
Brightness Mode	lest to	Touch	5
Noma 1	Wh		/
23	/32	+	

(For GT2105-Q, GT2104-R)

Brightness	Å
Brightness Mode	Star Touch
-兴-Brightness	23/32
	+

■3. POWER LED (GT2105 only)

Step 1.	Touch a setting item to change the setting. POWER LED:	ON	OFF
	reach a colling item to change the colling. I offert EED		0.1



Step 2. Touch the \bigotimes button to save the changes.

	1
Opening time	56 Touch
Screen save time	[56] Min(0:None)
Brightness	Setting
POWER LED	OFF

12.2.1 Operation setting functions

Setting regarding GOT operation can be set.

The items which can be set are described below. If touch the each item part, the respective setting becomes possible.

Function	Description	Setting range
Buzzer volume	Buzzer volume setting can be changed.	OFF/SHORT/LONG (At factory shipment: SHORT)
Window move buzzer	Whether turn ON/OFF buzzer when move window can be selected.	ON/OFF (At factory shipment: ON)
Key reaction	The touch panel sensitivity when touching the GOT screen can be set. (For preventing chattering)	±0 to +120 ^{*1}
Calibration	Calibrates the touch panel sensitivity 12.2.4 Position correction of the touch panel (touch panel calibration setting)	-
Utility call	Utility call key setting screen can be displayed 12.2.5 Setting the utility call keys	-

*1 The more the value set for [Key reaction] is high, the more the key reaction speed slows.

							_
"Key reaction" [ms]	Standard (±0)	+10	+20	+40	+80	+120	

For example, when the GOT recognizes touching the GOT screen once as touching the screen twice, set a higher value for [Key reaction].

POINT

Operation setting by GT Designer3

Set buzzer volume and window move buzzer volume by selecting [Common] \rightarrow [GOT Environmental Setting] \rightarrow [GOT Setup...] of GT Designer3.

When change a part of the setting, change the setting by the GOT display setting after downloading the project data.

Image: GT Designer3 (GOT2000) Help

Main menu ¹¹ Main Menu Language GOT setup GOT setup GOT Setup [GOT Setup].	GOT setup
Display settings (For GT2104-P, GT2103-P) Operation Image: Calibration Calibration Setting Utility call Setting Next	Next Display settings (For GT2104-P, GT2103-P) Operation Buzzer volume Buzzer volume OFF Key react ion Standard Next Display settings (For GT2105-Q, GT2104-R) Buzzer volume Standard Next Operation Standard Calibration Setting Utility call Setting

- *1 Refer to the following for display operation of main menu.
 - 9.3 Utility Display

12.2.3 Setting operation of operation

Buzzer volume

Operation		\times
Buzzer volume	SHORT 🦕	1
Window move buzzer	OFF) ⁷ 1.
Key reaction	Standard	Next

Step 2. Touch the \bigotimes button to save the changes.

2. Window move buzzer

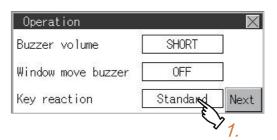
Step 1. Touch a setting item to change the setting. (Window move buzzer: ON_OFF)

Operation		\times
Buzzer volume	SHORT	
Window move buzzer	OFF 🗲	기 1.
Key reaction	Standard	Next

Step 2. Touch the \bigotimes button to save the changes.

■3. Key reaction setting

Step 1. If touch the setup item, the setup contents ^{*1} are changed.



Step 2. After changing the setting, touch the \bigotimes button.

The setting is saved and the setting screen is closed.

*1 The more the value set for [Key reaction] is high, the more the key reaction speed slows.

"Key reaction" [ms]	Standard (±0)	+10	+20	+40	+80	+120

For example, when the GOT recognizes touching the GOT screen once as touching the screen twice, set a higher value for [Key reaction].

Step 1. Touch a setting item to change the setting. (Buzzer sound: SHORT LONG OFF)

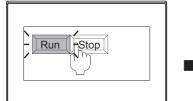
■1. Touch panel calibration setting function

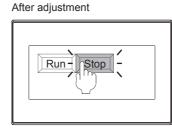
Touch panel reading error can be corrected.

Normally the adjustment is not required, however, the difference between a touched position and the object position may occur as the period of use elapses.

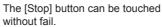
When any difference between a touched position and the object position occurs, correct the position with this function.

Before adjustment





The [Run] will operate though you intended to touch the [Stop] button.



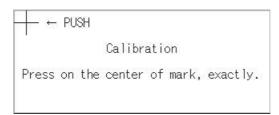
Main menu GOT setup Main Menu P ABC 4 Display Comm. Setting Language - Hi Touch GOT Security setting [Operation]. כנוי Touch [GOT Setup]. Operation Operation X Buzzer volume SHORT Window move buzzer OFF Key reaction Standard Next Next Touch panel calibration Operation Operation ← PUSH Setting. Calibration Calibration etting. Util Touch Press on the center of mark, exactly. [Calibration]. Next

■2. Touch panel calibration setting display operation

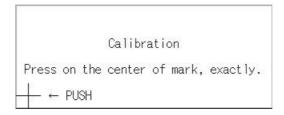
3. Touch panel calibration operation

Touch [+] displayed on the screen with the finger one by one to make the setting.

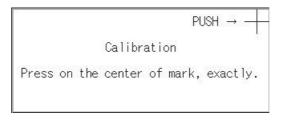
Step 1. Touch the center of [+] displayed on the upper left precisely.



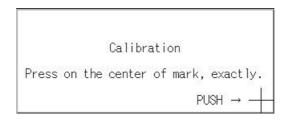
Step 2. Touch [+] displayed on the lower left.



Step 3. Touch [+] displayed on the upper right.



Step 4. Touch [+] displayed on the lower right.



Step 5. Step 4 completes the calibration process, and the [Operation] window will reappear.

POINT

Touch panel calibration error

If touch panel calibration results in inoperability of the panel, the following message will appear.

Setting Error. Retry?	
YES	N O

[YES] button: Returns to the touch panel calibration screen.

[NO] button: Aborts calibration without saving any changes to the touch panel setting.

12.2.5 Setting the utility call keys

Utility call key setting function

The key position for calling the main menu of the utility can be specified.

For the key position, the specification of 1 point from 4 corners on the screen, or no specification (0 point), can be set. By keeping pressing the screen, a setting to switch the screen to the utility is available. This prevents a switching to the utility by an unintentional operation

This prevents a switching to the utility by an unintentional operation.

POINT

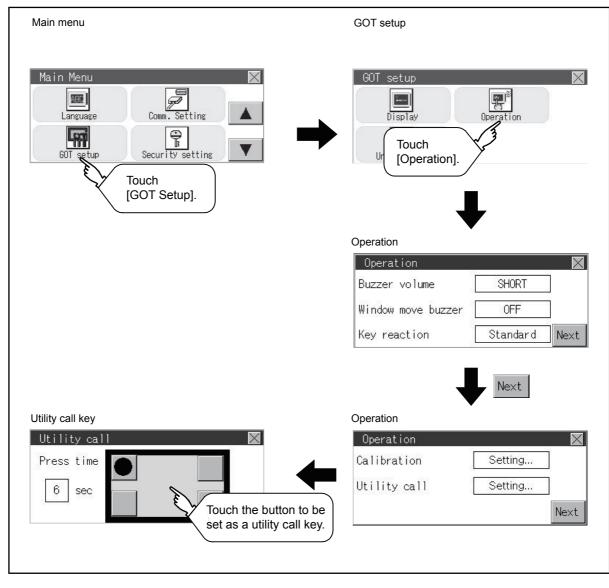
Operation setting by GT Designer3

Set the utility call key by selecting [Common] \rightarrow [GOT Environmental Setting] \rightarrow [GOT Setup...] from GT Designer3.

When change a part of the setting, change the setting by the GOT display setting after downloading the project data.

➡ GT Designer3 (GOT2000) Help

■2. Utility call key display operation



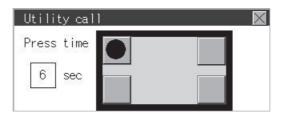
*1 Refer to the following for display operation of main menu.

9.3 Utility Display

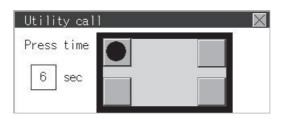
■3. Utility call key setting operation

Step 1. Touch or displayed at the four corners of the setting screen. The button repeats every time it is pressed. Change the part to be set as a key position to .

For the key position, 0 or 1 point can be specified.



Step 2. When setting 1 point, specify the time to switch to the utility in case of keeping pressing the key position. Touch the time input area.



- *Step 3.* Touching the input area displays a keyboard. Input numeric with the keyboard.
- Step 4. Touch the \bowtie button to save the changes.

POINT

(1) When the utility call key is not set (set to 0-point)

Even when the utility call key is not set (set to the zero point), you can display the main menu by performing the following operation.

- · Pressing the special function switch set on the user-created screen
 - 9.3.1 Display operation of main menu

(2) When limiting the display and operation of the utility

When limiting the display and operating users, set a password to the GOT using GT Designer3. If a user tries to display the main menu of the utility, the password is displayed. Refer to the following for the details related to the password setting.

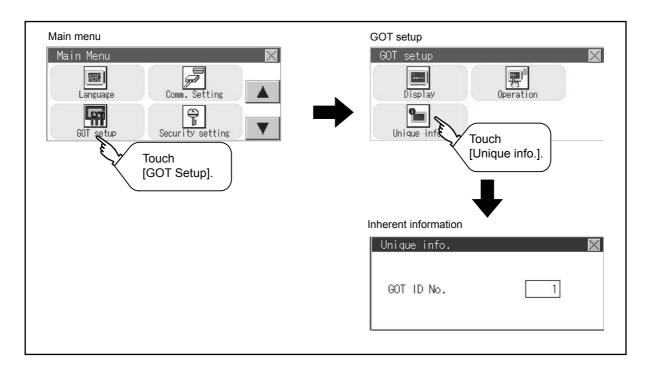
🗯 GT Designer3 (GOT2000) Help

12.3.1 Setting function for inherent information

Configure inherent information settings.

Item	Description	Setting range
GOT ID No.	Set the ID No. as the inherent information for the GOT.	0 to 32767 <default: 0=""></default:>

12.3.2 Display operation of inherent information



12.3.3 Setting operation for inherent information

Step 1. If touching the setting items, keyboard is displayed. Input numeric with the keyboard.

\times

Step 2. If touch the X button, the GOT restarts and operates with the changed settings.



13.1 Security Level Authentication

■1. Security level change functions

Changes the security level to the same security level set by each object or screen switch. To change the security level, enter the password for the security level set with GT Designer3.

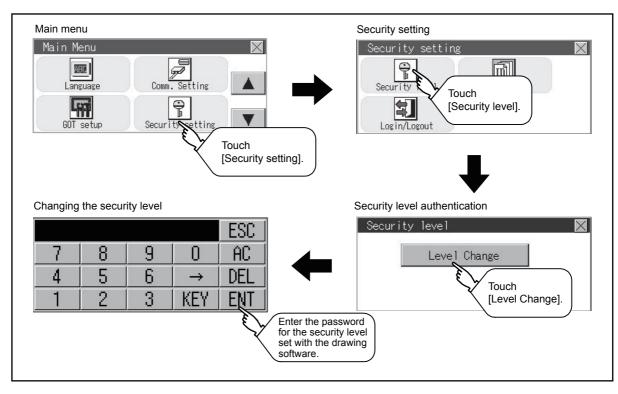
🗯 GT Designer3 (GOT2000) Help

POINT

Restrictions on screen display

The security level change screen cannot be displayed when project data do not exist in GOT. Change the security level after downloading the project data to GOT.

■2. Display operation of security level change



■3. Security level change operation

(1) Input operation of password

Step 1. By touching [0] to [9], [A] to [F] key, the password of the changed security level is input. Character types to be input can be changed by touching the [KEY] button.

				ESC
7	8	9	0	AC
4	5	6	\rightarrow	DEL
1	2	3	KEY	ENT

- *Step 2.* When correcting the input character, touch [Del] key to delete the correcting character and input the password again.
- Step 3. After inputting password, touch the [Enter] key. When the password is not matched, displays the error message.

The entered wrong.	password	is
[0 K	

- Step 4. If [OK] button is touched it returns to the password input screen again.
- Step 5. If the button is touched, it returns to the security setting screen.

POINT

About forgetting to return to the original level after changing security level temporarily

When use GOT after temporarily changing the security level, do not forget to return the security level to the original level.

13.2.1 Operator information management

■1. Operator management

(1) Operator management function

The function enables displaying a list of the operator information and adding, changing, or deleting the operator information to be used.

A password for operator authentication can be changed when the password is out of date.

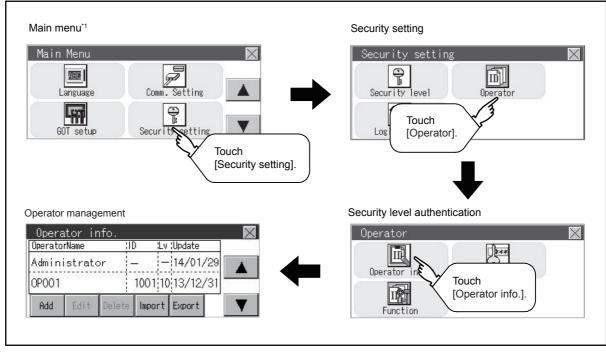
Functions for the operator authentication (automatic logout time, authentication method, password expiration date, etc.) can be set.

For details of the operator authentication functions, refer to the following.

🗯 GT Designer3 (GOT2000) Help

Function	Description	Reference page
Operator management	Enables adding, editing, deleting, importing, and exporting the operator information.	🗯 13 - 3, 13 - 6
Add	Add operator information to the GOT.	IIIIIIIIIIIIIIII ■ 13 - 7
Edit	Edit the operator information stored in the GOT.	IIII - 9 ■
Delete	Delete the operator information stored in the GOT.	➡ 13 - 10
Import	Import the operator information that is already exported to an SD card to the GOT.	➡ 13 - 11
Export	Export the operator information stored in the GOT to an SD card.	➡ 13 - 12
Password change	Enables changing passwords to be used for login and logout in/out of the GOT.	➡ 13 - 13
Function setting	Enables setting the automatic logout time and password expiration date.	➡ 13 - 15

(2) Display operation of operator management

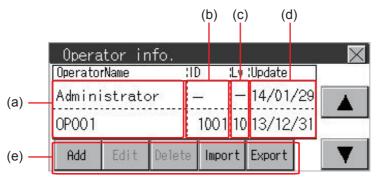


*1 Refer to the following for display operation of main menu.

9.3 Utility Display

(3) Display example of operator management

(a) Operator information management screen



No.	Item	Description
(a)	Operator Name	Displays operator names.
(b)	ID	Displays operator IDs.
(c)	Lv	Displays security levels for operators.
(d)	Update	Displays the last updated dates of the operator information.
(e)	Operation keys	Execution keys for each function

(b) Operator information edit screen

Touch the [Add] button or touch the [Edit] button with the operator information selected on the Operator information management screen, and then the Operator information edit screen is displayed. The operator information can be edited.

0	perator edit		\times
Op	peratorName	0P001	(a)
0p	perator ID	1001	Next (b)
Le	evel	10	Save (c)
		Next	
	perator edit	•	
	assword	*****	(d)
E>	piration	Terminabl	Next (e)
E×	ternal auth	Disuse	Save (f)
		Next	
0	perator edit	•	\boxtimes
E×	ct.auth. ID	A000000100000000	(g)
		[Next
			Save (h)
		Next	
Item		Descriptio	
tor Name	The operator name to alphanumeric charac	b be edited is displayed or inputers)	It an operator name to be a

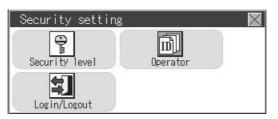
13

No.	Item	Description
(a)	Operator Name	The operator name to be edited is displayed or input an operator name to be added. (Up to 16 alphanumeric characters)
(b)	Operator ID	The operator ID to be edited is displayed or input an operator name to be added. (Setting range: 1 to 32766, Maximum number of registrations: 255)
(c)	Level	Displays the security level for the operator or input the security level for an operator to be added. (0 to 15)
(d)	Password	Input a password. (Up to 16 alphanumeric characters)
(e)	Expiration	Switches the setting of the item disabled and enabled.
(f)	External auth	Switches whether to use or not to use the external authentication.
(g)	Ext.auth. ID	Displays or inputs an external authentication ID. (External authentication setting range: Alphanumeric characters ^{*1} of 4 to 32 digits)
(h)	Save	Saves the setting.

*1 Since the hexadecimal key window is used, A to F and 0 to 9 can be input.

(4) Operator management operation

Step 1. Touch [Operator] \rightarrow [Operator info.].



Step 2. The Admin password authentication screen is displayed, and then input the administrator password.

Admin	n aut	hentication		\times
Enter	the	administrator	password.	
Passwo	ord			

Character types to be input can be changed by touching the [KEY] button.

7	8	9	0	AC		
4	5	6	\rightarrow	DEL		
1	2	3	KEY	ENT		

When the input is completed, touch the [Enter] key.

Step 3. When the administrator password is correctly input, the Operator information management screen in displayed.

Operato	ator in r Name		D :Lv	:Update		X
Admin	istrat	or	_ -	14/01/	/29	
OP001			1001 10	13/12/	/31	_
Add	Edit	Delete	Import	Export		T

For operation of operating switches, refer to the following. [Add]

```
➡ (a) Add operation
```

[Edit]

(b) Edit operation

[Delete]

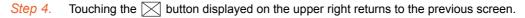
(c) Deletion operation

[Import]

(d) Import operation

[Export]

(e) Export operation



(a) Add operation

Add operator information to the GOT.

Step 1. Touch the [Add] button.

Operato	rName	};	ID	:Lv	:Update	_
Admin	istrat	or	<u></u>	_	14/01	/29
OP001			100	01 10	13/12	2/31
Add	Edit	Delete	l Im	port	Export	

Step 2. The Operator information edit screen is displayed. Touch the [Next] switch to display an item to be edited, and touch the item.

Operator edit		\times
OperatorName	0P001	
Operator ID	1001	Next
Level	10	Save

1) Operator Name

If the operator name is touched, a keyboard is displayed. Input an operator name with the keyboard. Character types to be input can be changed by touching the [KEY] button. When the input is completed, touch the [ENT] key.

				ESC
7	8	9	0	AC
4	5	6	\rightarrow	DEL
1	2	3	KEY	ENT

2) Operator ID

If the operator ID is touched, a keyboard is displayed. Input an operator ID. Character types to be input can be changed by touching the [KEY] button. When the input is completed, touch the [ENT] key.

3) Level

If the level is touched, a keyboard is displayed. Input an operator level. Character types to be input can be changed by touching the [KEY] button. When the input is completed, touch the [ENT] key.

When the level of the operator being login is changed during editing the operator information, a new level is not reflected until you log out of the GOT once and log in the GOT again.

13

4) Password

For changing passwords during editing, touch the password. A keyboard is displayed, and then input a password.

When the input is completed, touch the [ENT] key.

When the password input is completed, the New password input confirmation dialog box is displayed. Input the same password.

New password 🕅 🕅								
New pas	New password							
		***	******	ESC				
7	8	9	0	AC				
4	5	6	\rightarrow	DEL				
1	2	3	KEY	ENT				

5) Expration

For switching the setting of [Make a permanent password], touch the [Expration] dialog box to switch the setting.

[Terminable] C [Permanent]

Operator edit		\times
Password	*******	
Expiration	Terminabl	Next
External auth	Disuse	Save

6) External auth

To use the external authentication, touch the [External auth] dialog box to switch the setting. [Use] \bigcirc [Disuse]

Operator edit		\times
Password	*****	
Expiration	Terminabl	Next
External auth	Disuse	Save

7) Ext. auth. ID

Touch the external authentication ID dialog box to display the ten-key pad for inputting hexadecimal numbers, and input an external authentication ID. When the input is completed, touch the [Enter] key. When the authentication method is set to the external authentication, an external authentication ID can also be input using an external authentication device.



13

Step 3.When the [Save] button is touched after all items are input, the input operator information is saved.Touching the X button displayed on the upper right returns to the previous screen.

POINT

Saving the setting

When the \bigotimes button is touched before the [Save] button is touched, the setting contents are not saved and the screen returns to the previous one.

To save the setting contents, always touch the [Save] button.

(b) Edit operation

Edit the operator information stored in the GOT.

Step 1. Select the operator information to be edited with touching the operator information.

Opera	tor in	nfo.			5.0	\geq
Operato	rName	316) (Lv	:Update		
Admini	strato	or –	- -	14/01,	/29	
0P001		1	001 10	14/01,	/29	
Add	Edit	Delete	Import	Export		T

- Step 2. Touch the [Edit] button.
- *Step 3.* The Operator information edit screen is displayed. Touch the [Next] switch to display an item to be edited, and touch the item.
 - (a) Level
 - (b) Password
 - (c) Expiration
 - (f) External auth
 - (g) Ext.auth. ID
 - For how to edit operator information, refer to the following.
 - (4) Operator management operation

Operator edit		\times
OperatorName	0P001	
Operator ID	1001	Next
Level	10	Save

Step 4. When the [Save] button is touched after all items are input, the input operator information is saved. Touching the 🔀 button displayed on the upper right returns to the previous screen.

POINT

Saving the setting

When the \bigotimes button is touched before the [Save] button is touched, the setting contents are not saved and the screen returns to the previous one.

To save the setting contents, always touch the [Save] button.

(c) Deletion operation

Delete the operator information stored in the GOT.

Step 1. Select the operator information to be deleted with touching the operator information.

Opera	tor in	nfo.				\times
Operato	rName	11) (Lv	:Update		
Admini	strato	or -		14/01/	′29	
0P001		1	001 10	14/01/	′29	
Add	Edit	Delete	Import	Export		V

Step 2. Touching the [Delete] button deletes the selected operator information. Touching the 🖂 button displayed on the upper right returns to the previous screen.

(d) Import operation

Import the operator information that is already exported to an SD card to the GOT.

Step 1. Touch the [Import] button.

Opera	itor in	nfo.				\geq
Operato	rName		D :Lv	:Update		
Admini	strat	or -		14/01,	/29	
OP001			1001 10	13/12,	/31	
Add	Edit	Delete	Import	Export		T

Step 2. The dialog box shown below is displayed.

When the [YES] button is touched, the Admin password authentication screen is displayed. Input the administrator password.

Character types to be input can be changed by touching the [KEY] button. When the input is completed, touch the [Enter] key.

Are you import?	sure	you	want	to
	YES		N (D

Step 3. When the administrator password is correctly input, the dialog box shown below is displayed and the operator information stored in an SD card is imported to the GOT.

Completed.		
	0 K	¢

(e) Export operation

Export the operator information stored in the GOT to an SD card.

Step 1. Touch the [Export] button.

Operato	rName) (Lv	:Update
Admini	istrato	or -	- -	14/01/:
OP001			1001 10	13/12/
Add	Edit	Delete	Import	Export

Step 2. The dialog box shown below is displayed.

select fo	ormat.	
CSV	BIN	
		select format. CSV BIN

- Step 3. Touch the following buttons according to the output format for the file.
 - Binary file: [BIN] button CSV file: [CSV] button
- Step 4.The dialog box shown below is displayed.Touch the [YES] button to export the information.

Are you export?	sure	you	want	to
	YES		N ()

Step 5. The dialog box shown below is displayed and the operator information stored in the GOT is exported to an SD card.

(file name: AUTHINF.G2U)

8

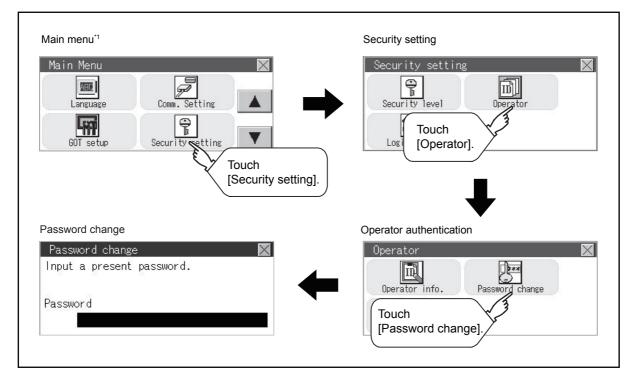
13.2.2 Password change

■1. Password change function

The passwords to be used for the operator authentication can be changed.

For the password change, log into the GOT in advance with the operator name corresponding to the password to be changed.

■2. Display operation of password change



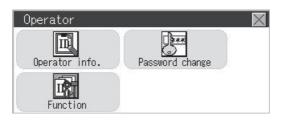
- *1 Refer to the following for display operation of main menu.
 - 9.3 Utility Display

■3. Password change operation

Step 1. Touch [Security setting] → [Login/Logout] to log into the GOT with the operator ID whose password is to be changed.

	\times

Step 2. Touch [Password change] in the operator setting menu, and then the Password change dialog box is displayed.



Step 3. Input the current password on the Password change dialog box.

Password change	\times
Input a present password.	
Password	

Character types to be input can be changed by touching the [KEY] button.

				ESC
7	8	9	0	AC
4	5	6	\rightarrow	DEL
1	2	3	KEY	ENT

When the input is completed, touch the [ENT] key.

Step 4. Input a new password.

New password	\times
Input a new password.	
New password	

- *Step 5.* After inputting a new password, input the new password again.
- *Step 6.* When the new password is correctly input, the dialog box shown below is displayed and the password is changed.

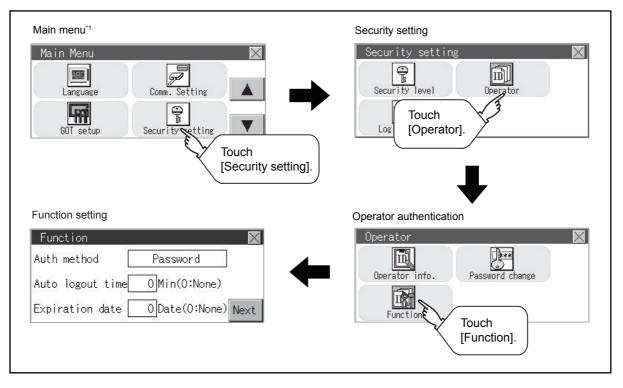
The comp	password leted.	change	is
		0 K	

■1. Function setting function

The functions for the operator information can be set. The following items can be set.

Item	Description	Reference page
Auth method	The authentication method is switched. [Password], [Ext. auth.], [Ext. auth. / Password]	I 3 - 16
Auto logout time	The time from when the last time the GOT is operated until when you automatically log out of the GOT can be set. (1 to 60 minutes, 0 is invalid.)	I3 - 16 ™
Expiration date	Set the item for regularly changing the password to be used for the operator authentication. (1 to 1000 days, 0 is invalid.) When the password is out of date after setting the password, the GOT requests the password change.	➡ 13 - 16
Ext. auth. ID Initial position	The starting position of an external authentication ID (Number of bytes) can be set from the data read from an external authentication device. (0 to 1998 bytes)	➡ 13 - 16
Ext. auth. ID Valid byte count	The valid number of bytes for an external authentication ID can be set. (2 to 16 bytes)	I 3 - 16

■2. Display operation of function setting

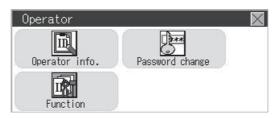


*1 Refer to the following for display operation of main menu.

9.3 Utility Display

■3. Function setting operation

Step 1. Touch [Operator] \rightarrow [Function], and then the Admin password authentication dialog box is displayed.



Step 2. When the administrator password is correctly input, the Function setting screen in displayed. Touch the [Next] switch to switch the setting screen, and touch an item to be set.

Function	\times
Auth method	Password
Auto logout time	0Min(0:None)
Expiration date [0 Date(0:None) Next

1) Auth method

The authentication method is switched.

Touching the authentication method switches the selected item in order of [Password] \rightarrow [Ext. auth.] \rightarrow [Ext.] \rightarrow

0				ESC
7	8	9	0	AC
4	5	6	+/-	DEL
1	2	3		ENT

2) Auto logout time

Touch [Automatic logout time] to display the ten-key pad. Input a setting time. When the input is completed, touch the [ENT] key.

3) Expiration date

Touch Expiration date to display the ten-key pad. Input a setting time. When the input is completed, touch the [Enter] key.

4) Ext. auth. ID Initial position

The starting position of an external authentication ID (Number of bytes) can be set from the data read from an external authentication device.

Function	\times
Ext. auth. ID	
Initial position 0 Byte	
Valid byte count 7 Byte	
5.2	Next

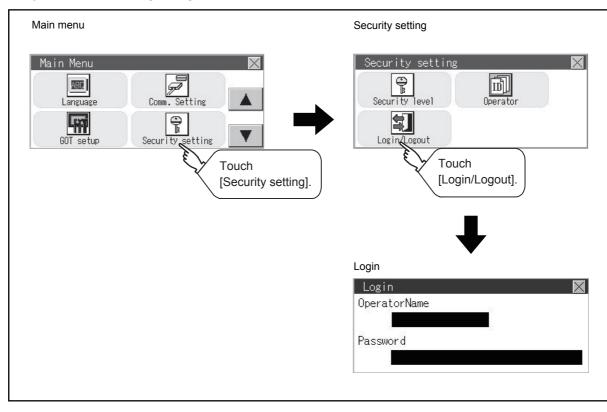
5) Ext. auth. ID Valid byte count

The valid number of bytes for an external authentication ID can be set. (This setting is available only when [External auth] or [Ext. auth. / Password] is set as the authentication method.)

Step 3. Touching the 🖂 button displayed on the upper right saves the setting contents and returns to the previous screen.

To manage the operator or change the password, log into the GOT.

■1. Display operation of login/logout



■2. Operation of login/logout

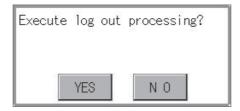
(1) Login

Step 1. Log into the GOT by inputting an operator name and its password. An external authentication device can be used for logging in.



(2) Logout

Step 1. Touch [Security setting] \rightarrow [Login/Logout], and then the screen shown below is displayed. Touch the [YES] button.





14. CLOCK SETTINGS AND BATTERY STATUS DISPLAY (TIME SETTING AND DISPLAY)

The clock data (date and time) are displayed and set in the clock setting menu.

14.1 Time Setting and Display

14.1.1 Time setting and display functions

Time settings and displaying of the status of GOT built-in battery are possible.

Function		Description	Reference	
Function	GT2103-P	GT2104-R, GT2104-P	Releience	
Time setting	-	Setup the method to adjust the time between GOT clock data and clock data of controller connected to the GOT.	■1. Time setting	
Clock display	Carry out the	display and setup of GOT clock data.	■2. Clock display	
GOT internal battery voltage status	- Displays GOT internal battery voltage status.		■3. GOT internal battery voltage status (GT2103-P is excluded.)	

POINT

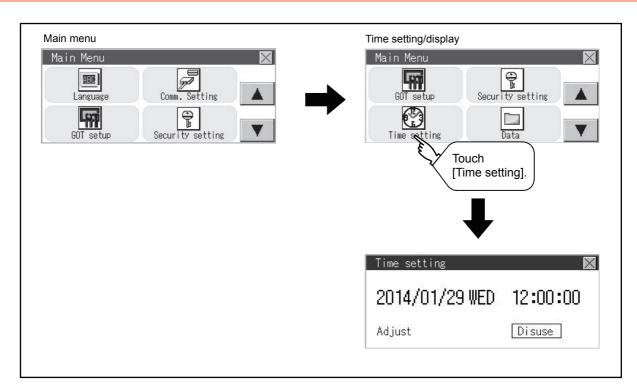
Changing times

When the time is changed on the Time setting & display screen, the changed time is written in a programmable controller even though [Adjust] or [Broadcast] is set for [Time setting]. As a result, the time of the programmable controller can be changed on the GOT even though [Adjust] is set for [Time setting].

(The clock data of the controller set as [Adjust CH No.] of [Clock data GOT is matched to clock data External (Adjust)] in [GOT Setup] ([Clock Setting]) of GT Designer3 is changed.) For details of [Adjust] and [Broadcast], refer to the following.

GT Designer3 (GOT2000) Help

14.1.2 Clock display and setting operation

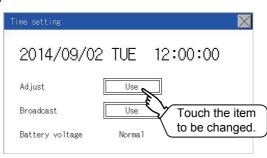


■1. Time setting

Setup the method to adjust the time between GOT data and the clock data of controller connected to the GOT.

Setting	Description		
	Synchronizes the clock data of the GOT with the clock data of the controller.		
Adjust			
	It is same as set in the GOT setup in Environmental Setting of GT Designer3.		
	GT Designer3 (GOT2000) Help		
	Synchronizes the clock data of the controller with the clock data of the GOT.		
Broadcast ^{*1}			
	It is same as set in the GOT setup in Environmental Setting of GT Designer3.		
	GT Designer3 (GOT2000) Help3		
None	No adjustment of clock data.		

- *1 GT2103-P cannot be specified.
- Step 1. Touch a setting item to change the setting. [Use] [Disuse]



Step 2. After changing the settings, touch the [x] button to save the changes and close the setting window.

POINT

(1) When connecting to an external device which does not have clock function

If set to [Adjust] or [Broadcast] for clock setting while the GOT is connected to external devices (PLC or microcomputers) which do not have clock function, the clock data will not be adjusted.

Refer to the following for the list of PLC installed with clock function.

- GOT2000 Series Connection Manual for the controller used
- Help GT Designer3 (GOT2000) Help
- (2) Clock setting when using the multi-channel function

The channel No. of a controller whose clock is used as a base or adjusted cannot be set by the utility.

The controller whose clock is used as a base or adjusted can be set by GT Designer3. For channel settings, refer to the following.

- GOT2000 Series Connection Manual for the controller used
- Help
- (3) Setting of clock setting and battery

When selecting [Broadcast] or [None] in clock setting, set the clock of the GOT once with connecting a battery to the GOT.

(4) Operation setting by GT Designer3

Set the clock management at [GOT set up] in [Environmental Setting] of GT Designer3. When change a part of the setting, change the setting by the GOT display setting after downloading the project data.

GT Designer3 (GOT2000) Help

■2. Clock display

Carry out the display and setting of GOT clock data. The setup methods of clock data are shown below.

Step 1. Touch either the date or time to be changed.



Step 2. Enter date or time on the ten-key pad.

The day of the week is displayed automatically according to the input date.

"0" to "9":

Use these keys to enter numerical values

"ESC":

Closes the ten-key window without saving any value entered for the date or time "AC":

Deletes the entire string of numerical characters that are being entered "DEL":

Deletes a digit from a string of numerical characters that are being entered "ENT":

Enters the value for the date or clock that has been entered and closes the ten-key pad window "+/-":

Switches between positive and negative values. (Only positive values are valid for the date or clock setting.) ".":

Invalid key (not used)

			2014	ESC
7	8	9	0	AC
4	5	6	+/-	DEL
1	2	3		ENT

Step 3. After setting either the date or time, touch the 🖂 button to save the changes and close the setting window.

3. GOT internal battery voltage status (GT2103-P is excluded.)

Displays battery voltage status.

Display	Status
Normal	Normal
Low/None	Low voltage

When the battery voltage is low, replace the battery immediately. Refer to the following for battery replacement procedure.

GOT2000 Series User's Manual (Hardware)



15. CONTROL OF VARIOUS DATA (DATA CONTROL)

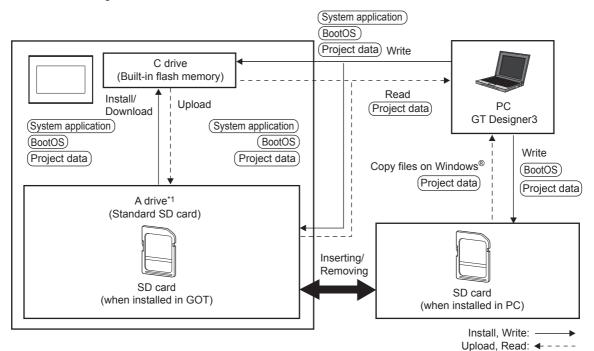
A system application, project data (screen data), or alarm data which is written in the GOT or SD card can be displayed, and the data can be transferred between the GOT and SD card. The format of the SD card is also possible.

15.1 Data Storage Location

15.1.1 Data type and storage location

■1. System

The data storage location and transferring (write/read) route for each data type are shown below. Also, the data storage locations are shown below.



*1 An SD card unit (GT21-03SDCD) which is sold separately is required.

The data of the built-in flash memory (Project data, etc.) can be saved even if the battery voltage becomes low.

Item	Data type	Storage location
BootOS	BootOS	Built-in flash memory (C drive)
	Basic system application	Standard SD card (A drive)
(System application)*1	Communication driver	Built-in flash memory (C drive)
	Advanced system application	*2
(Project data)*1	Project data (Including recipe setting, alarm conditions, time action, and GOT setup.)	Standard SD card (A drive) Built-in flash memory (C drive) *2

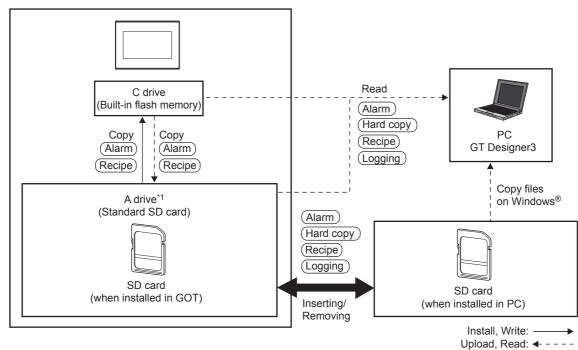
*1 The SD card can be used from Utility.

15.2 OS information

*2 When using the project data stored in the Standard SD Card (A drive) with the GOT, hold the SD card installed to the GOT.

■1. At maintenance

(1) For GT2103-P



*1 An SD card unit (GT21-03SDCD) which is sold separately is required.

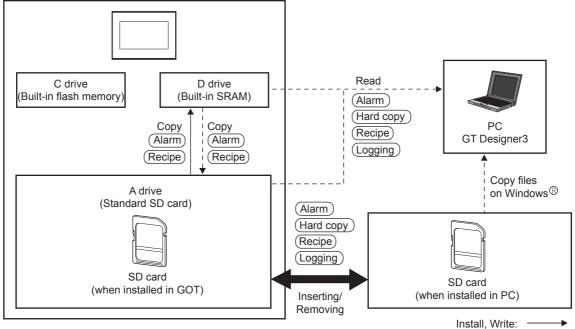
Item	Data type	Storage location	
Alarm	Alarm data (Alarm log file)	Standard SD card (A drive) Built-in flash memory (C drive)	
Recipe	Recipe data (Recipe file)		
Logging	Logging (Logging file)	Chandland CD courd (A drive)	
(Hard copy)	Image file (Hard copy function)	Standard SD card (A drive)	

POINT

Checking available space of the storage memory

To save resource data, check available space of the storage memory.

(2) For GT2105-Q, GT2104-R, GT2104-P



Upload, Read: - - - -

Item	Data type	Storage location	
Alarm	Alarm data (Alarm log file)	Standard SD card (A drive)	
Recipe	Recipe data (Recipe file)	Built-in SRAM (D drive)	
Logging	Logging (Logging file)	Chandrad CD courd (A drive)	
(Hard copy)	Image file (Hard copy function)	Standard SD card (A drive)	

POINT

Checking available space of the storage memory

To save resource data, check available space of the storage memory.

15.1.2 Checking version of BootOS and basic system application

Confirm the basic system application version carefully when installing the BootOS and basic system application. When the basic system application is installed, the GOT checks and compares the basic system application version automatically.

■1. When the BootOS is installed

When the BootOS to be installed has the older major version, the GOT displays the installation disapproving message to cancel the installation so that the older version may not be written.

(Even when the version of the BootOS to be installed has the same or later version, the version information and the dialog box for selecting continue/not continue will be displayed.)

2. When a basic system application or communication driver has been installed

When a basic system application or communication driver has already been installed, the version information of the basic system application which has been installed and the dialog box for selecting whether to continue the installation or not will be displayed.

Moreover, when the different versions will coexist among all applications (basic system application and communication driver) by installing the basic system application, the installation disapproving dialog box will be displayed and the installation process is canceled.

■3. When project data is downloaded

The GOT automatically compares the version between the project data to be downloaded and the installed basic system application.

When the versions are different, the dialog box confirming whether to install the basic system application together is displayed.

The version of each system application that has been installed in the GOT can be checked on the OS information screen.

OS information		\times	
Kind	Version		How to read version 01.02.000C
BootOS	01 02 000C		BootOS version (Indicated only when the property of the BootOS is displayed.)
Basic System Application	01 00 000		Minor version
MELSEC-FX	01 00 000		Major version

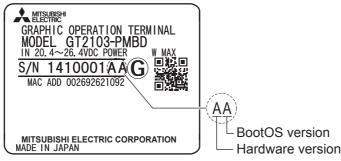
For the display operation of the screen, refer to the following.

➡ 15.2 OS information

POINT

Version confirmation of BootOS by rating plate

Confirm the version of BootOS installed in the GOT at product shipment by rating plate of GOT rear face.



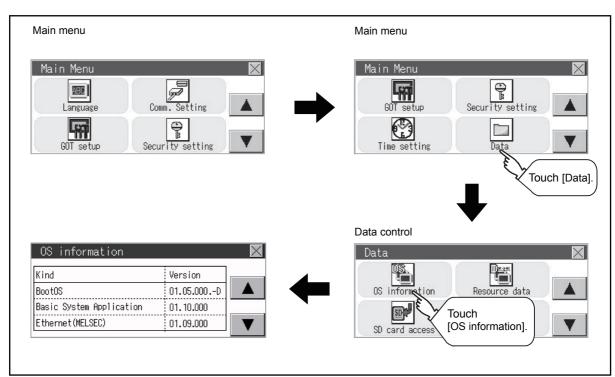
15.2 OS information

■1. Function of OS information

Each file name or folder name of the BootOS that runs in the GOT and package data can be displayed in a list.

Function	Description	Reference page
Information display of files and folders	Displays the type, name, and version of the file.	I5 - 5 ™

■2. Display operation of OS information



■3. Display example of system application information

OS information Storage file/folder display screen

Í			
	OS information		$\overline{\mathbf{X}}$
	Kind	Version]
1)	BootOS	01.05.000D	
	Basic System Application	01.10.000 1	
	Ethernet(MELSEC)	01.09.000	
		(2)	

No.	Item	Description
(1)	Name	Each file name or folder name of the BootOS that runs in the GOT and package data can be displayed in a list.
(2)	Version information	Displays the software version.

15.3.1 Alarm information

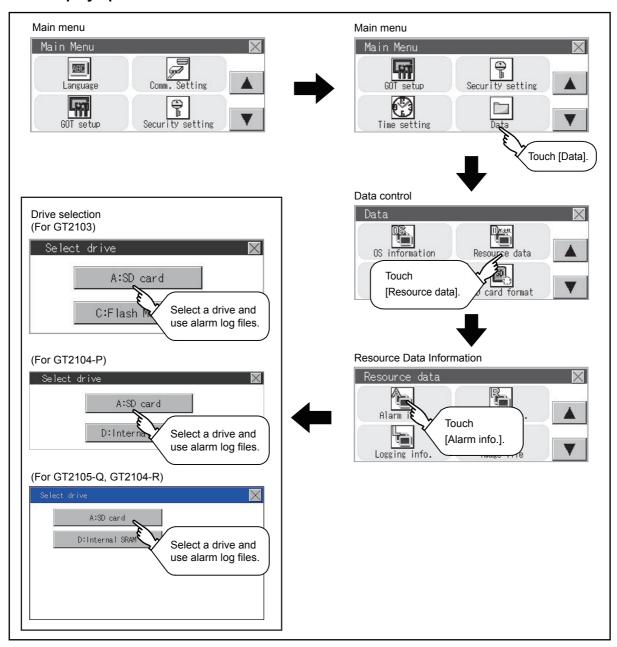
■1. Function of alarm information

Alarm log files stored in each drive (A: Standard SD card, C: Built-in flash memory or C: Built-in SRAM) are displayed. The functions below can be carried out for files.

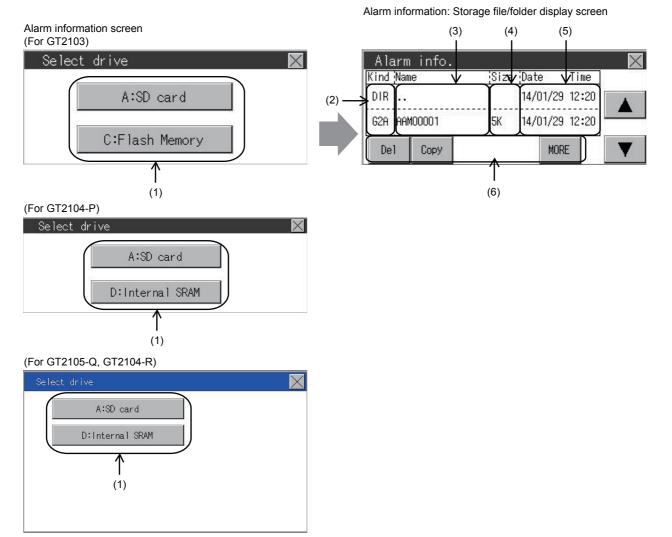
For details of the alarms, refer to the following manual.

🖛 GT Des	igner3 (GOT2000) Help	
Function	Description	Reference page
Information display of files and folders	Displays name, data size, creation date and time of file or folder.	🗯 15 - 7, 15 - 8
$\text{G2A} \rightarrow \text{CSV conversion}$	Converts the G1A file of an alarm log file to a CSV file.	IIII → 15 - 10
$\text{G2A} \rightarrow \text{TXT conversion}$	Converts the G1A file of an alarm log file to a TXT file.	➡ 15 - 10
Delete	Deletes the file.	➡ 15 - 11
Сору	Copies the file.	➡ 15 - 12

■2. The display operation of alarm information



■3. The display example of alarm information



No.	Item	Description
(1)	Drive selection	The drive which displays file or folder can be selected.
(2)	Kind	Indicates whether the displayed name is file or folder. Displays the extension for a file and "DIR" for a folder.
(3)	Name	Displays the file name or folder name. For the long file/folder name, entire part may not be displayed. ■ ■4. Alarm information operation
(4)	Size	Displays the size of the file displayed in Name.
(5)	Date, Time	Displays the creation date and time of each file.
(6)	Operation switch	Execution switch of each function.

POINT

(1) Display of creation date and time

The creation date and time display is not updated even if a file is created or updated while displaying the alarm information display screen.

If the screen currently displayed is closed (by moving the screen to the folder of the upper hierarchy, etc.) and the same screen is displayed again, the updated contents are displayed.

15

■4. Alarm information operation

(1) The display operation of alarm information

Step 1. If a drive of [Select drive] is touched, the information of the touched drive is displayed.

Alarm information screen (For GT2103)
Select drive 🛛 🗙
A:SD card
C:Flash Memory
(For GT2104-P)
Select drive 🗙
A:SD card
D:Internal SRAM
(For GT2105-Q, GT2104-R)
Select drive
A:SD card
D:Internal SRAM



Alarm information: Storage file/folder display screen

Kind Nar	ne	Size	Date	Time
DIR			14/01/29	12:20
G2A AAI	M00001	5K	14/01/29	12:20
Del	Сору		MORE	Ξ



Kind Name	Size	Date	Time	1
DIR		14/01/29	9 12:20	
G2A AAMOOOO1	5K	14/01/29	9 12:20	-
Convert	8	MOR	RE	T

- Step 2. If a folder name is touched, the information of the touched folder is displayed.
- Step 3. If a folder of ". ." is touched, the information of the folder in one upper hierarchy is displayed.
- Step 4. If the \blacksquare \blacksquare button of the scrollbar is touched, the screen scrolls up/down by one line.
- Step 5. If a file name is touched, the file is selected.
- Step 6. For operations of G2A \rightarrow CSV conversion, G2A \rightarrow TXT conversion, deletion, copy, and graph, refer to the following.

 $\text{G2A} \rightarrow \text{CSV}, \, \text{G2A} \rightarrow \text{TXT}$

 \blacksquare (2) G2A \rightarrow CSV conversion operation, G2A \rightarrow TXT conversion operation

Delete

(3) Deletion operation

Сору

(4) Copy operation

Step 7. If the \bigotimes button is touched, the screen is closed.

15

(2) $G2A \rightarrow CSV$ conversion operation, $G2A \rightarrow TXT$ conversion operation The selected G1A file is converted to a CSV file or TXT file.

Step 1. Touch the G2A file to be converted to a CSV file or TXT file.

Alarm	info.				X
Kind Nam	ie	Size	Date	Time	
DIR ···			14/01/29	12:20	
G2A AAM	100001	5K	14/01/29	12:20	-
Del	Сору		MOR	RE	T

- Step 2. Touch [Convert].
- Step 3. The following dialog box is displayed when touching the following button according to the file type to convert to.
 - · CSV file:
 - [CSV] button
 - TXT file:
 - [TXT] button

Please	select	format.	
	CSV	TXT	

Step 4. Touch the [YES] button. The file is overwritten with the converted file.

Change	file	format?
	YES	NO

(3) Deletion operation

The selected file is deleted.

- Step 1. Touch the file to be deleted.
- Step 2.If the [Delete] button is touched, the dialog box mentioned below is displayed.If the [YES] button is touched, the file is deleted.If the [NO] button is touched, the deletion is canceled.

Are you delete?	sure	you	want	to
	YES		Ň)

(4) Copy operation

The selected file is copied.

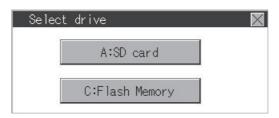
Step 1. Touch the file to be copied.

Step 2. If the [Copy] button is touched, the Select drive screen is displayed.

Alarm	info.					
Kind Nam	e	Size	Date	Tir	ne	
DIR			14/01/29	12:	:20	-
G2A AAM	00001	5K	14/01/29	12:	20	_
Del	Сору		MOF	E		T

Step 3. Select a drive.

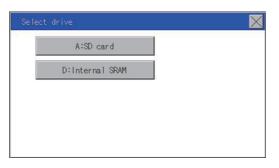
(For GT2103-P)



(For GT2104-P)

A:SD card	
D:Internal SRAM	

(For GT2105-Q, GT2104-R)



Step 4. Select the copy destination folder and touch [Execute]. The file is copied.

Kind Name	Size	Date	Time	
DIR		14/01/29	12:21	
G2A AAMOOOO1	5K	14/01/29	12:21	-

POINT

Before using recipe information

For writing/reading into/from a controller with this function or editing of recipe files on the personal computer, refer to the following.

Specifications and operating procedure are described.

GT Designer3 (GOT2000) Help

■1. Function of recipe information

The recipe file used in the recipe function can be copied, deleted, and converted to a file.

Fu	unction	Description	Reference page
Information display of files and folders		Displays name, data size, creation date and time of file or folder.	■ 15 - 15 15 - 16
	$\begin{array}{l} \text{G2P} \rightarrow \text{CSV} \\ \text{conversion} \end{array}$	Converts a G2P file of a recipe file to a CSV file.	I5 - 18 ™
$\begin{array}{c} \text{Recipe} & \text{G2P} \rightarrow \text{TXT} \\ \text{information} & \text{conversion} \\ \text{screen} & \hline & \text{CSV/TXT} \rightarrow \text{G2P} \\ \text{conversion} \end{array}$	Converts a G2P file of a recipe file to a Unicode text file.	🗯 15 - 18	
		Converts a CSV file or TXT file to a G1P file of a recipe file.	I5 - 19 ™
	Delete	Deletes the file.	🗯 15 - 19
	Сору	Copies the file.	➡ 15 - 20

Main menu Main menu Main Menu Main Menu Ţ GOT setup ABD Comm. Setting Language Security setting ٢ R GOT setup Security setting Time setting Dat Touch [Data]. Data control OS information Resource data Drive selection (For GT2103-P) 20 Touch Select drive \times [Resource data]. card format A:SD card Select a drive and C:Flash use recipe information. **Resource Data Information** Resource data (For GT2104-P) Select drive X ĥ 'n ipe info. A:SD card Touch h [Recipe info.]. D:Inter Select a drive and Image file use recipe information. (For GT2105-Q, GT2104-R) A:SD card D:Internal SR Select a drive and use recipe information.

■2. Display operation of recipe information

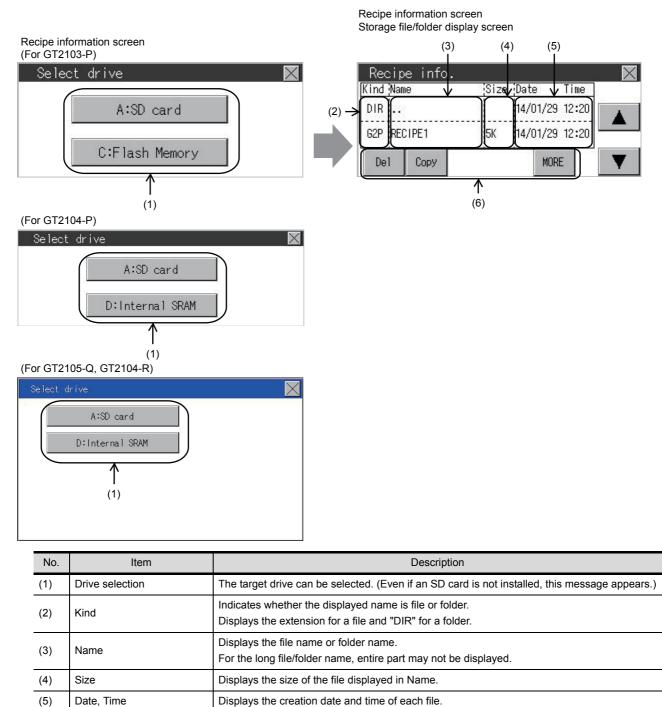
■3. Example of advanced recipe information display

(1) Recipe information screen

Date, Time

Operation switch

(6)



Execution switch of each function.

■4. Recipe information operation

(1) Display operation of recipe information

Step 1. If a drive of [Select drive] is touched, the information of the touched drive is displayed.

Recipe information screen (For GT2103-P)
Select drive 🛛 🗙
A:SD card
C:Flash Memory
(For GT2104-P)
Select drive 🛛 🛛 🕅
A:SD card
D:Internal SRAM
(For GT2105-Q, GT2104-R)
Select drive
A:SD card
D:Internal SRAM



Recip	e info.			2	\times
Kind Nam	ie	Size	Date	Time	8
DIR			14/01/29	9 12:20	
G2P REC	CIPE1	5К	14/01/29	9 12:20	-
De1	Сору		MOF	RE	V



Recipe info.				\times
Kind Name	Size	Date	Time	1
DIR		14/01/29	12:20	
G2P RECIPE1	5K	14/01/29	12:20	-
Convert		MOR	E	V

- Step 2. If a folder name is touched, the information of the touched folder is displayed.
- Step 3. If a folder of ". ." is touched, the information of the folder in one upper hierarchy is displayed.
- Step 4. If the \blacksquare v button of the scrollbar is touched, the screen scrolls up/down by one line.
- Step 5. If a file name is touched, the file is selected.
- Step 6.For operation of operating switches, refer to the following. $G2P \rightarrow CSV, G2P \rightarrow TXT$

 \implies (2) G2P \rightarrow CSV conversion operation, G2P \rightarrow TXT conversion operation CSV/TXT \rightarrow G2P

 \implies (3) CSV/TXT \rightarrow G2P conversion operation

Delete

(4) Deletion operation

Сору

(5) Copy operation

Step 7. If the \bigotimes button is touched, the screen is closed.

15

(2) G2P \rightarrow CSV conversion operation, G2P \rightarrow TXT conversion operation

A recipe file (G2P file) is converted to a CSV file or Unicode text file that can be displayed/edited on a personal computer.

Step 1. Touch the G2P file to be converted to a CSV file or TXT file.

Recipe info.				×
Kind Name	Size	Date	Time]
DIR		14/01/29	12:20	
G2P RECIPE1	5K	14/01/29	12:20	
Convert		MOR	E	V

Step 2. Touch [Convert].

- Step 3. Touch the following button in accordance with destination file type.CSV file:
 - [CSV] button
 - TXT file:
 - [TXT] button

(For GT2103-P)

Please s	select	format.
	CSV	TXT

(For GT2105-Q, GT2104-R)

Step 4. Touch the [YES] button. The file is overwritten with the converted file.

Change	fi le	format?
	YES	NO

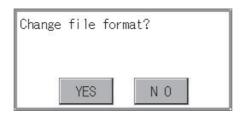
(3) CSV/TXT \rightarrow G2P conversion operation

A CSV file or Unicode text file is converted to a recipe file (G2P file).

Step 1. To select the file, touch the CSV file or TXT text file to be converted to a G2P file.

Kind Name	Size	Date	Time	
G2P RECIPE1		14/01/29	12:20	
CSV ARPODO01	5K	14/01/29	12:20	
Convert		MOR	E	

- Step 2. Touch the [Convert] button.
- Step 3. If the [YES] button is touched, the file is overwritten with the converted file.



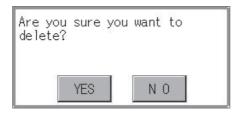
(4) Deletion operation

Files to be used in recipe are deleted.

Step 1. Touch the file to be deleted.

Recip	e info				\times
Kind Nam	e	Size	Date	Time	
DIR	(14/01/29	9 12:20	
G2P REC	IPE1	5K	14/01/29	9 12:20	
Del	Сору		MOI	RE	V

Step 2. If the [Delete] button is touched, the dialog box mentioned below is displayed. If the [YES] button is touched, the file is deleted. If the [NO] button is touched, the deletion is canceled.



(5) Copy operation

Files to be used in recipe are copied.

Step 1. Touch the file to be copied.

Kind Nam	1e	Size	Date	Tin	ne
DIR	1		14/01/2	9 12:	:20
G2P REC	IPE1	5K	14/01/2	9 12:	20
Del	Сору		MC	RE	

Step 2. If the [Copy] button is touched, the Select drive screen is displayed.

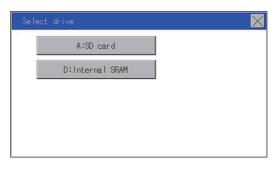
Step 3.	Select a drive.
	(For GT2103-P)

Sele	ot drive	
	A:SD card	
	C:Flash Memory	

(For GT2104-P)

A:SD card	
D:Internal SRAM	

(For GT2105-Q, GT2104-R)



Step 4. Select the copy destination folder and touch [Execute]. The file is copied.

Kind Name	Size	Date	Time	
DIR		14/01/29	12:21	
G2P RECIPE1	5K	14/01/29	12:21	-

■ 5. Precautions

(1) Precautions for operation

(a) Precautions during file operation (Create/Delete/Copy/File conversion, etc.)

Even if the access to the SD card is inhibited while the GOT is processing files, the processing continues. (Example: Even if the access to the SD card is inhibited while the GOT is copying a file, a file is created.) Therefore, do not pull out the SD card while the "Processing..." message is on the screen after the access to the SD card is inhibited.

(b) While the GOT is accessing to other file (Alarm data, etc.)

When file processing for the recipe is executed while the GOT is in access to another file (SD card access LED ON), the GOT executes file processing for the recipe after the processing for the other file has completed. Therefore, it may take some time to finish the processing of the recipe file.

POINT

Estimation of processing time

The process may take time depending on the setting of advanced recipe file to be operated. (The more number of blocks increases, the longer it takes to process recipe folder/file.) The process for creating the first file may take time depending on the setting of advanced recipe file.

15

15.3.3 Logging information

■1. Function of logging information

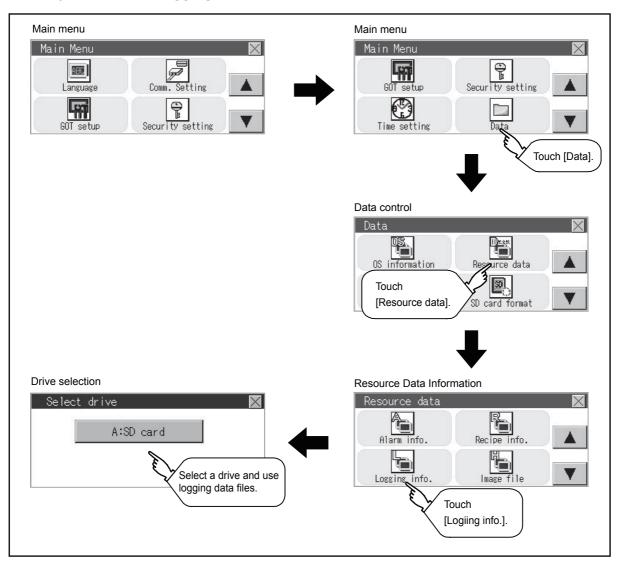
Logging files created with the logging function can be copied or deleted, etc. Without using a personal computer, you can manage logging files on the GOT.

For details of the logging function, refer to the following.

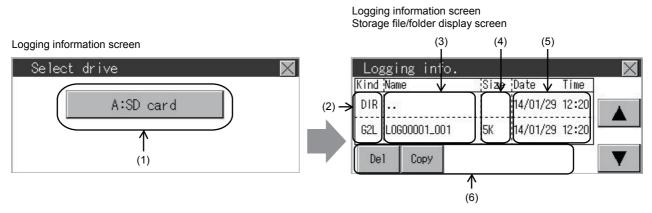
lp
lp

Function	Description	Reference page
Information display of files and folders	Displays name, data size, creation date and time of file or folder.	■ 15 - 23 15 - 24
Delete	Deletes the file.	➡ 15 - 25
Сору	Copies the file.	🗯 15 - 26

■2. Display operation of logging information



■3. Example of logging information display



No.	Item	Description
(1)	Drive selection	The target drive can be selected. (Even if an SD card is not installed, this message appears.)
(2)	Kind	Indicates whether the displayed name is file or folder. Displays the extension for a file and "DIR" for a folder.
(3)	Name	Displays the file name or folder name. For the long file/folder name, entire part may not be displayed.
(4)	Size	Displays the size of the file displayed in Name.
(5)	Date, Time	Displays the creation date and time of each file.
(6)	Operation switch	Execution switch of each function.

■4. Logging information operation

(1) Display operation of logging information

Step 1. If a drive of [Select drive] is touched, the information of the touched drive is displayed.





Loggi	ng info.				\times
Kind Nam	18	Size	Date	Time	
DIR			14/01/29	12:20	
G2L LO	500001_001	5K	14/01/29	12:20	-
Del	Сору		•	<u>.</u>	V

- Step 2. If a folder name is touched, the information of the touched folder is displayed.
- Step 3. If a folder of ". ." is touched, the information of the folder in one upper hierarchy is displayed.
- Step 4. If the \blacksquare value button of the scrollbar is touched, the screen scrolls up/down by one line.
- Step 5. If a file name is touched, the file is selected.
- *Step 6.* For operation of operating switches, refer to the following. Delete
 - (2) Deletion operation

Сору

- ➡ (3) Copy operation
- Step 7. If the \boxtimes button is touched, the screen is closed.

(2) Deletion operation

Files to be used in logging are deleted.

Step 1. Touch the file to be deleted.

Loggi	ng info.				\geq
Kind Nam	10	Size	Date	Time	
DIR ···			14/01/29	12:20	
62L L08	00001_001	5K	14/01/29	12:20	-
Del	Сору			ġ.	V

Step 2. If the [Delete] button is touched, the dialog box mentioned below is displayed. If the [YES] button is touched, the file is deleted. If the [NO] button is touched, the deletion is canceled.

Are you delete?	sure	you	want	to
	YES		N (D

(3) Copy operation

Files to be used in logging is copied.

Step 1. Touch the file to be copied.

Kind Na	ne	Size	Date	Time
DIR			14/01/29	12:20
G2L L0	GOOOO1_OO1	5K	14/01/29	12:20
Del	Сору			

- Step 2. If the [Copy] button is touched, the Select drive screen is displayed.
- Step 3. Select a drive.



Step 4. Select the copy destination folder and touch [Execute]. The file is copied.

Kind Name	Size	Date	Time
DIR		14/01/29	12:21
G2L L0G00001_001	5K	14/01/29	12:21

■5. Precautions

(1) Precautions for operation

(a) Precautions during file operation (Create/Delete/Copy, etc.)

Even if the access to the SD card is inhibited while the GOT is processing files, the processing continues. (Example: Even if the access to the SD card is inhibited while the GOT is copying a file, a file is created.) Therefore, do not pull out the SD card while the "Processing..." message is on the screen after the access to the SD card is inhibited.

(b) While the GOT is accessing to other file (Alarm data, etc.)

When file processing for the logging is executed while the GOT is in access to other files (SD card access LED ON), the GOT executes file processing for the logging after the processing for other files is completed. Therefore, it may take some time to finish the processing of the logging file.

15

15.3.4 Image file management

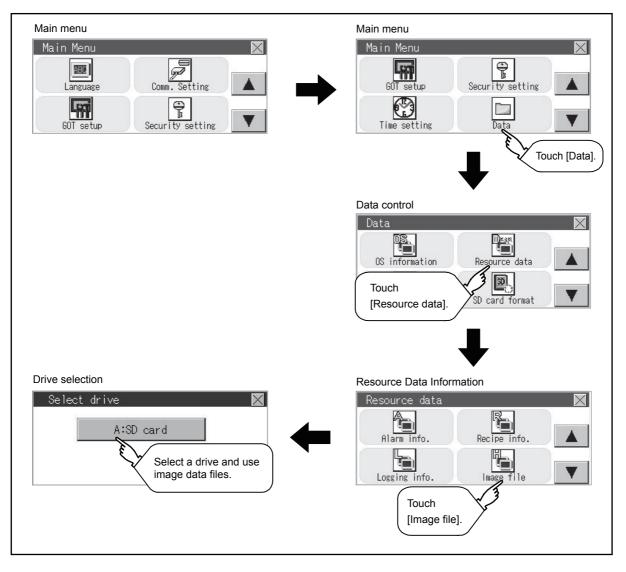
■1. Function of image file management

Deletes, copies, and moves the file created by the hard copy function. For details of the hard copy function, refer to the following.

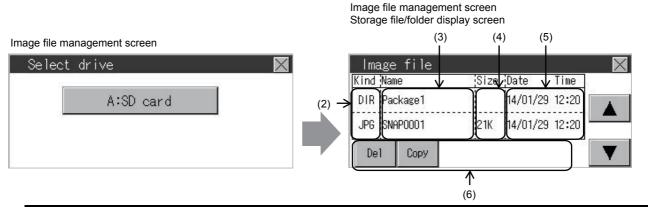
GID6	esigners (GOT2000) Help	
Function	Description	Reference page
Information display of files and folders	Displays the kind, name, data size, creation date and time of the file or folder.	➡ 15 - 29 15 - 30
Delete	Deletes the file.	🗯 15 - 31
Сору	Copies the file.	➡ 15 - 32

GT Designer3 (GOT2000) Help

■2. Display operation of image file management



■3. Display example of image file management



No.	Item	Description
(1)	Drive selection	The drive which displays file or folder can be selected. When an SD card is not installed, the following drives are not displayed. • SD card: [A:SD card]
(2)	Kind	Indicates whether the displayed name is file or folder. Displays the extension for a file and "DIR" for a folder.
(3)	Name	Displays the file name or folder name. For the long file/folder name, entire part may not be displayed.
(4)	Size	Displays the size of the file displayed in Name.
(5)	Date, Time	Displays the creation date and time of each file.
(6)	Operation switch	Execution switch of each function.

POINT

(1) Display of creation date and time

The creation date and time display is not updated even if a file is created or updated while the image file management screen is displayed. To display the updated creation date and time, close the screen currently displayed (by moving to the upper hierarchy folder, etc.) and display the screen again.

15

■4. Operation of image file management

(1) Display operation of image file management

Step 1. If a drive of [Select drive] is touched, the information of the touched drive is displayed.

Image	e file				\times
Kind Na	ne	Size	Date	Time	
DIR Pa	ckage1		14/01/29	12:20	
JPG SN	AP0001	21K	14/01/29	12:20	-
De1	Сору			30	

- Step 2. If a folder name is touched, the information of the touched folder is displayed.
- Step 3. If a folder of ". ." is touched, the information of the folder in one upper hierarchy is displayed.
- *Step 4.* If the button of the scrollbar is touched, the screen scrolls up/down by one line.
- Step 5. If a file name is touched, the file is selected.
- Step 6. For the operations of the delete, copy, and rename, refer to the following.

Delete

(2) Deletion operation

Сору

(3) Copy operation

Step 7. If the \boxtimes button is touched, the screen is closed.

(2) Deletion operation

The selected file is deleted.

Step 1. Touch the file to be deleted.

Kind Nam	ie	Size	Date	Time
DIR Pac	kage1		14/01/29	12:20
JPG SNA	iP0001	21K	14/01/29	12:20
Del	Сору			

Step 2. If the [Delete] button is touched, the screen mentioned below is displayed. If the [YES] button is touched, the file is deleted. If the [NO] button is touched, the deletion is canceled.

Are you delete?	sure	you	want	to
	YES		N (D

(3) Copy operation

The selected file is copied.

Step 1. Touch the file to be copied.

Kind Nam	ne	Size	Date	Time
DIR Pac	ckage1		14/01/29	12:20
JPG SNF	P0001	21K	14/01/29	12:20
Del	Сору			

Step 2. If the [Copy] button is touched, the Select drive screen is displayed. Select a drive.



Step 3. If the copy destination folder is touched, the screen display is changed to the folder of copy destination. At this time, it cannot be copied into the same folder where the file exists. Select other folders.

Kind Na	me	Size	Date	Time
DIR Pa	ckage1		14/01/29	12:20
DIR Pa	ckage2		14/01/29	12:20
Del	Сору			

Step 4. If touch the [Execute] button, the file is copied.

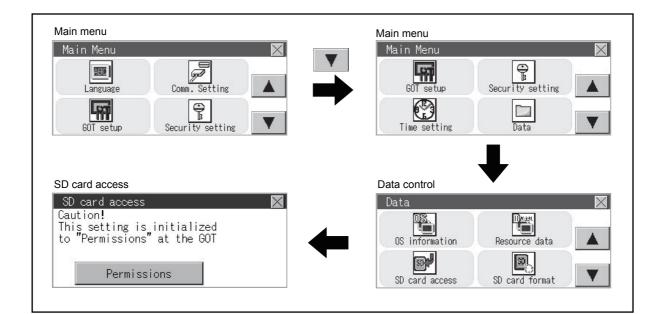
(ind Name	Size	Date	Time
DIR		14/01/29	12:20
JPG SNAP0001	21K	14/01/29	12:20

15.4 SD Card Access

15.4.1 Functions of SD card access

When the GOT is turned on, an SD card can be installed or removed to/from the GOT without damage to the data in the SD card.

15.4.2 Display operation of SD card access



15.4.3 Operation of SD card access

Step 1. Touch a setting item to change the setting. [Permissions] [Access inhibit] When installing or removing an SD card, always set [Access inhibit].

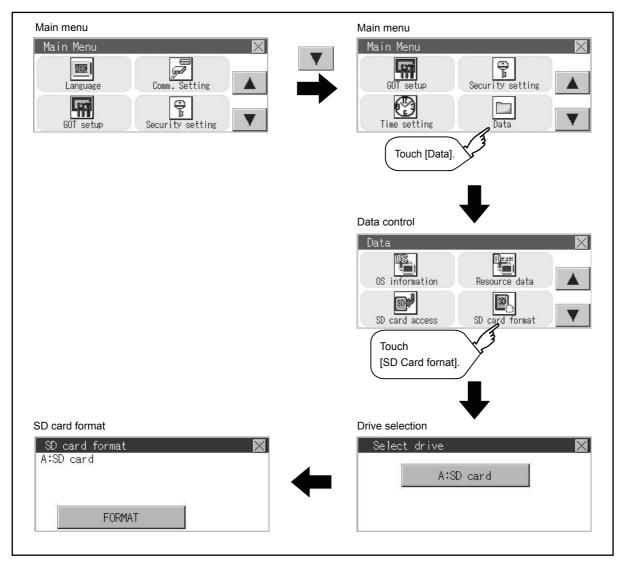
SD card access	\times
Caution!	
This setting is initialized to "Permissions" at the GOT	
to "Permissions" at the GOT	
01 18	
Permissions	
Permissions	

15.5 SD Card Format

■1. Function of SD card format

An SD card is formatted.

■2. Display operation of SD card format



■3. Operation of SD card format

- *Step 1.* Install an SD card to the GOT. For installation/removal procedure of an SD card, refer to the following.
 - GS21-03SDCD General Description
- *Step 2.* Touch and select the drive to format by drive selection.

SD card format	\times
A:SD card	
FORMAT	
FORMAT	

Step 3. If the [FORMAT] button is touched, the password input screen is displayed.

SD card format	\times
A:SD card	
FORMAT	

Step 4. Type 1 1 1 1 and touch the [Enter] key. The dialog box shown below will appear. (The password is fixed to 1111.)

Confirm the contents of the dialog box, and touch the [YES] button to format the SD card. To cancel the format, touch the [NO] button.

Caution! Please do not remove a card during a format. Format the SD card ?	
YES N O	

Step 5. When the formatting is completed, the completion dialog mentioned below is displayed.

Completed.		
	0 K	

Step 6. To close the dialog box, touch the [OK] button.

POINT

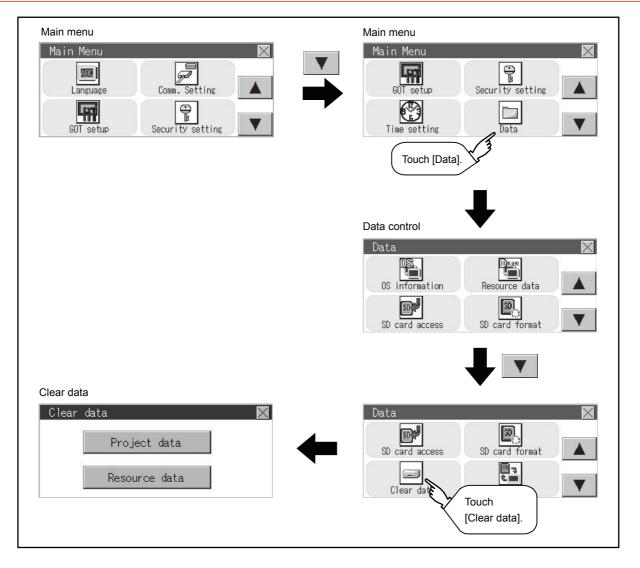
Restrictions on formatting

- When using an unformatted SD card in the GOT, format it by a personal computer. The GOT cannot format the unformatted SD card.
- The format of the GOT does not change the file system (Example: FAT16) of the SD card and inherits the file system before the format.

15.6.1 Clear data functions

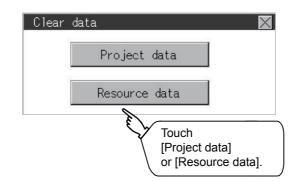
This function deletes the project data and resource data that are written to the GOT.

15.6.2 Clear data display

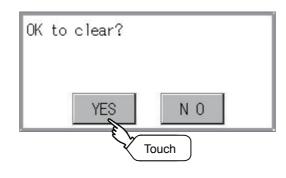


15.6.3 Clear data operation

Step 1. Touch the type of data on the screen to be deleted.



Step 2. The dialog box below is displayed for confirmation. Touch the [YES] button to delete the data, or the [NO] button to cancel.



POINT

Canceling deletion

Data deletion cannot be canceled once the [YES] button is pressed at the confirm deletion prompt. Double check before touching the [YES] button.

15.7 Data Copy

The project data and basic system application are transferred by using an SD card.

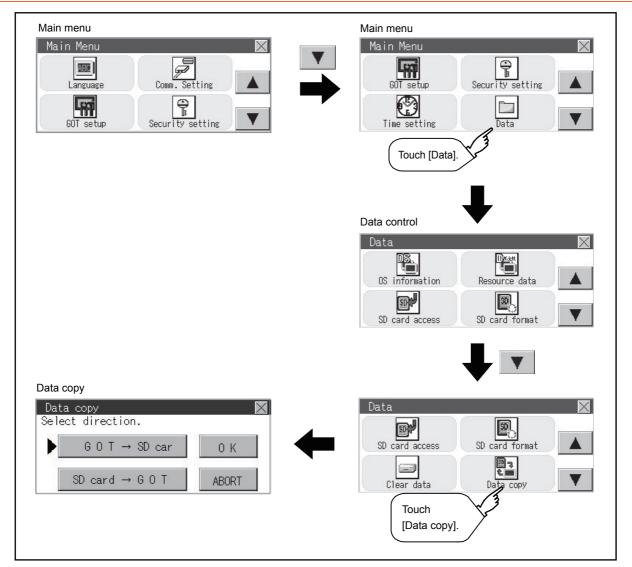
POINT

Copy from the SD card to the GOT

Data can be copied from the SD card to the GOT when the GOT is powered on. Refer to the following.

18.2 Installing using the data copy function (Utility)

15.7.1 Display operation of data copy

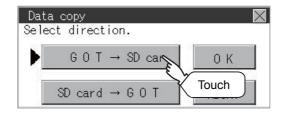


15.7.2 Operation of data copy

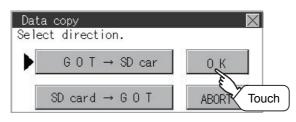
Step 1. Select the copy direction. The selection mark is displayed on the side of the selected key.

 $\text{GOT} \rightarrow \text{SD}$ card: Copy from the GOT to the SD card

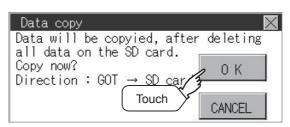
SD card \rightarrow GOT: Copy from the SD card to the GOT



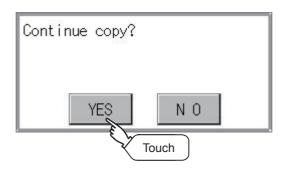
Step 2. After selecting the direction, touch the [OK] button. To abort copy, touch the [ABORT] button.



Step 3.Confirm the copy direction and copy target.When they are set correctly, touch the [OK] button. To change the setting, touch the [CANCEL] button.

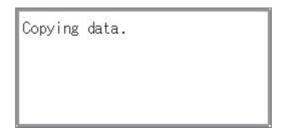


Step 4. The dialog box below is displayed for confirmation. Touch the [YES] button to start copying and [NO] button to cancel.



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Step 5. While the copy is executed, the dialog box below is displayed.



Step 6. Copy is completed.

If the [ESC] button is touched, the screen is closed.

Data copy	X
Copy is comleted.	Touch

If an error occurs during copy, an error message appears. For details of error messages, refer to the following.

➡ ■1. Error display

When only the project data was copied to the GOT, touch the [ESC] button to restart the GOT and display the user-created screen.

When the basic system application was copied, the GOT will automatically start up and display the usercreated screen.

(If the project data does not exist, a message appears to notify that the project data does not exist.)

POINT

When installing or removing an SD card

Always set [Permissions] on the GOT. For details, refer to the following.

➡ 15.4 SD Card Access

■1. Error display

When copying is not available between the GOT and the SD card, check the following contents according to the GOT error display.

Error message	Remedy
No SD card is installed.	Install an SD card to the GOT.
The model information does not match.	The model set for the data in the SD card does not match with that of the copy target GOT. Use the same model data as that of the copy target GOT.
The write protection switch of the SD card is ON.	The write protection switch of the SD card is ON. Turn off the write protection switch.
No data to be a copy target exists in the copy source.	There is no data to be a copy target in the copy source. Store the data to be copied in the copy source and copy it again.

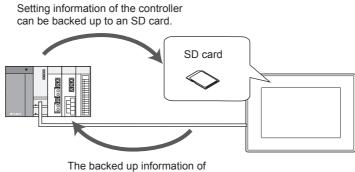
15.8 Backup and Restoration

15.8.1 Backup and restoration

The setting information of the controller connected to the GOT (including sequence programs, parameters, and set values) can be saved (backed up) to the SD card installed to the GOT and the data can be restored to the controller if necessary. The following shows the features of the backup and restoration.

1. Systems can be backed up and restored without using a personal computer, and this shortens downtime.

The setting information of the controller connected to the GOT can be backed up or restored. By using the setting information that was backed up, the information can be restored from the connected GOT even while the controller is replaced due to its failure. Thus, the system can be restored easily.



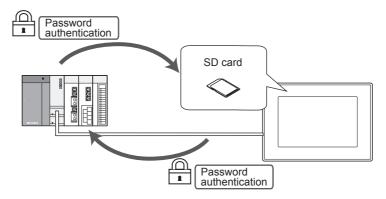
the controller can be restored.

2. The same system can be created without using a personal computer.

By restoring the backed up information to the controller of another system, the same system can be created without using a personal computer.

■3. Security can be enhanced.

By setting a password to limit browsing and changing the setting information, the security at the backup or restoration operation is enhanced.



15.8.2 System configuration

This section describes the system configuration for the backup and restoration.

For the setting method in each connection form, used communication unit/cable and cautions on connection form, refer to the following.

GOT2000 Series Connection Manual (Mitsubishi Product) For GT Works3 Version1

■1. Target controller

Controller
QCPU (Q mode) ^{*1*2*3}
LCPU
FXCPU ^{*4*5}

- *1 Q12PRHCPU and Q25PRHCPU are excluded.
- *2 Use the PLC CPU with the function version B or later.
- *3 When the connection destination is the redundant CPU, data cannot be backed up and restored.
- *4 To restore the backup data including special parameters, use a CPU with either of the following versions.
 Version of FX3U(C): 3.10 or later
 - Version of FX3G(C): 2.00 or later
- *5 MELSEC iQ-F Series are excluded.

■2. Connection type

This function can be used in the following connection type.

1			, no otni ot o d	
(\bigcirc . Applicable,	\triangle . Parity	resincieu,	\times : Inapplicable)

Function		Connection type between GOT and controller		
Name	Description	Direct CPU connection	Computer link connection	Ethernet connection
Backup and restoration	I information of the controller connected		∆*³	△*2*3

*1 When a LCPU is connected, use the L6ADP-R2.

*2 When a CC-Link IE Field Network Ethernet adaptor is used, the backup and restoration cannot be used.

*3 The data cannot be restored to the QCPU in the factory shipment status or whose memory is formatted.

■3. Required hardware

An SD card is required to back up and restore data.

■4. Backup/restoration target data

The following shows the backup/restoration target data. The data other than the following cannot be backed up or restored.

(1) Basic model QCPU

Item	Description	File name
Parameter	Parameter to operate the PLC	PARAM.QPA
Intelligent function module parameter	Parameter for the intelligent function module	IPARAM.QPA
Sequence program	Program for the operation by the CPU	MAIN.QPG
SFC program	Sequence program in the SFC format	MAIN-SFC.QPG
File register ^{*1}	File register data	MAIN.QDR
Device comment	Device comment to be stored to the PLC	MAIN.QCD
Device initial value	Initial value setting of devices	MAIN.QDI

*1 The file register in the Flash card installed to the CPU is always restored and overwritten without any notice.

*2 Whether to restore or not to restore the file register in the SRAM card or the standard RAM can be selected in the dialog box displayed when the restoration is executed.

*3 When the file register is not restored, the existing file register is deleted and the program of the controller may not operate properly.

When a problem occurs in the operation of the controller after the restoration, restore the data including the file register again.

(2) High Performance model QCPU

Item	Description	File name
Parameter	Parameter to operate the PLC	PARAM.QPA
Intelligent function module parameter	Parameter for the intelligent function module	IPARAM.QPA
Program	Program for the operation by the CPU (including SFC)	***.QPG
Device comment	Device comment to be stored to the PLC	***.QCD
Boot setting file	Batch file to start a program from the ROM or others	AUTOEXEC.QBT
Device initial value	Initial value setting of devices	***.QDI
File register ^{*1}	File register data	***.QDR
Sampling trace file ^{*2}	Sampling trace data to collect the specified device data continuously at the specified timing	***.QTD
Failure history data ^{*2}	Record of the self check results	***.QFD
Programmable controller user data	Data created by users and stored to the memory card	***.*** (Any name)

*1 The file register in the Flash card installed to the CPU is always restored and overwritten without any notice.

*2 Whether to restore or not to restore the file register in the SRAM card or the standard RAM can be selected in the dialog box displayed when the restoration is executed.

*3 When the file register is not restored, the existing file register is deleted and the program of the controller may not operate properly.

When a problem occurs in the operation of the controller after the restoration, restore the data including the file register again.
*4 Only the backup operation is available.

(3) Universal model QCPU

Item	Description	File name
Parameter	Parameter to operate the PLC	PARAM.QPA
Intelligent function module parameter	Parameter for the intelligent function module	IPARAM.QPA
Program	Program for the operation by the CPU (including SFC)	***.QPG
Device comment	Device comment to be stored to the PLC	***.QCD
Boot setting file	Batch file to start a program from the ROM or others	AUTOEXEC.QBT
Device initial value	Initial value setting of devices	***.QDI
File register ^{*1}	File register data	***.QDR
Sampling trace file ^{*2}	Sampling trace data to collect the specified device data continuously at the specified timing	***.QTD
Programmable controller user data	Data created by users and stored to the memory card	***.*** (Any name)
File for storing device data	Device data that the SP.DEVST and S.DEVLD instructions use	DEVSTORE.QST
Drive headline sentence	Drive headline sentence	QN.DAT
Remote password	Remote password setting	00000000.QTM
Monitor sequence extension	Data to speed up the monitoring from other stations	MONITOR.Q0*
Latch data backup file	The file where the backup data is stored by the latch data backup function to the standard ROM	LCHDAT00.QBK

*1 The file register in the Flash card installed to the CPU is always restored and overwritten without any notice.

*2 Whether to restore or not to restore the file register in the SRAM card or the standard RAM can be selected in the dialog box displayed when the restoration is executed.

*3 When the file register is not restored, the existing file register is deleted and the program of the controller may not operate properly.

When a problem occurs in the operation of the controller after the restoration, restore the data including the file register again.
*4 Only the backup operation is available.

(4) LCPU

Item	Description	File name
Parameter	Parameter to operate the PLC	PARAM.QPA
Intelligent function module parameter	Parameter for the intelligent function module	IPARAM.QPA
Program	Program for the operation by the CPU (including SFC)	***.QPG
Device comment	Device comment to be stored to the PLC	***.QCD
Boot setting file	Batch file to start a program from the ROM or others	AUTOEXEC.QBT
Device initial value	Initial value setting of devices	***.QDI
File register ^{*1}	File register data	***.QDR
Sampling trace file ^{*2}	Sampling trace data to collect the specified device data continuously at the specified timing	***.QTD
Programmable controller user data	Data created by users and stored to the memory card	***.*** (Any name)
File for storing device data	Device data that the SP.DEVST and S.DEVLD instructions use	DEVSTORE.QST
Drive headline sentence	Drive headline sentence	QN.DAT
Remote password	Remote password setting	0000000.QTM
Monitor sequence extension	Data to speed up the monitoring from other stations	MONITOR.Q0*
Latch data backup file	The file where the backup data is stored by the latch data backup function to the standard ROM	LCHDAT00.QBK
Data logging setting file	Data logging setting	LOGCOM.QLG LOG01.QLG to LOG10.QLG
Menu definition file	Menu definition file	MENUDEF.QDF

*1 The file register in the Flash card installed to the CPU is always restored and overwritten without any notice.

*2 Whether to restore or not to restore the file register in the SRAM card or the standard RAM can be selected in the dialog box displayed when the restoration is executed.

*3 When the file register is not restored, the existing file register is deleted and the program of the controller may not operate properly.

When a problem occurs in the operation of the controller after the restoration, restore the data including the file register again.*4 Only the backup operation is available.

(5) FXCPU

Item	Description	File name
Parameter	Parameter to operate the PLC	
Device comment	Device comment to be stored to the PLC	
Sequence program	Program for the operation by the CPU	
Special program ^{*1}	Positioning setting/Initial value parameter	
File register	File register data	INFO.FPG
Extension file register ^{*2}	Extension file register data	
Built-in CC-Link/LT setting ^{*3}	CC-Link/LT parameter	
Special parameter ^{*1}	Parameter for special adaptors and special blocks stored in the main unit	

*1 The backup and restoration can be performed only when the FX3U(C) or FX3G(C) series is used.

*2 The backup and restoration can be performed only when the FX3U(C) series is used.

*3 This data exists only in the FX3U-32MT-LT-2.

(6) Data for each software

	Item	Description	File name
Label progra	m	Data for GX Developer	PROJINFO.CAB
Symbolic dat	a	Symbolic data for PX Developer	#FBDQINF.BIN
Symbolic	Simple project (with label)	GX Works2 data	SRCINFOM.CAB SRCINFOM.C32
information	Structured project	GX Works2 data	SRCINFOI.CAB SRCINFOI.C32
New	Simple project (with label)	GX Works2 data	SRCINF1M.CAB SRCINF2M.CAB SRCINF1M.C32 SRCINF2M.C32
symbolic information	Structured project	GX Works2 data	SRCINF1I.CAB SRCINF2I.CAB SRCINF1I.C32 SRCINF2I.C32

■5. Backup data

(1) Storing backup data

When the backup operation is executed multiple times to the same channel, the backup data is overwritten.

(2) Backup data storage location

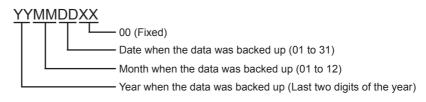
The backup data is stored to an SD card with the following folder structure.

SD card The SD card inserted to the drive set as the backup data storage destination



(3) Folder for backup data

Backup data is stored in each folder and each folder name (YYMMDDXX) is determined as follows.



15.8.3 Access range

Access range for each connection type

The following shows the target location of the backup/restoration for each connection type.

Connection type	Target	
Computer link connection	Host station	
Ethernet connection	Host station	

■2. When the multi-channel function is used

When the multi-channel function is used, data is backed up or restored per channel.

■3. Backup/restoration of the multiple CPU system

The batch backup of all CPUs can be executed for the multiple CPU system. Backing up of the CPU No. 1 to 4 cannot be specified.

15.8.4 Precautions

■1. Precautions for backing up data

(1) Data that cannot be backed up

The current values of devices and the device memory cannot be backed up. To collect the current values of the devices, use the recipe function. For how to use the recipe function, refer to the following.

🖛 GT Designer3 (GOT2000) Help

To collect the device memory, use GX Developer.

(2) Backup target file name

When characters other than the ones of the shift JIS code and the ASCII code are used in a file name, the file name may not be displayed properly after data is backed up to the GOT.

To use the backup/restore function, use characters of the shift JIS code or ASCII code in file names.

(3) Backup of the intelligent function module parameters

To back up the intelligent function module parameters (IPARAM.QPA), only the parameters that can be stored to the PLC CPU are the backup target.

To back up parameters other than the ones above, GX Configurator that is compatible with the modules or GX Works2 is required.

For the intelligent function module parameters that can be stored to the PLC CPU, refer to the following.

GX Works2 Version 1 Operating Manual (Intelligent Function Module)

(4) Compatibility of the backup data

- (a) The backup data that is used by GT21 cannot be used by GT27 or GT25.
- (b) The backup data that is used by GT27 and GT25 cannot be used by GT21.

2. Precautions for restoring data

(1) Communication status of the GOT and the controller to execute the restoration To execute the restoration, the target controller must be able to communicate with the GOT. When the target controller cannot communicate with the GOT, data cannot be restored.

(2) STOP status at the restoration

The PLC CPU goes into the STOP status by using the remote STOP before the restoration. Since the remote STOP cannot be used for the FXCPU at the restoration, users must change the PLC's status to the STOP status.

After the restoration is completed, this STOP status is not canceled. Restart each controller.

(3) Canceling the restoration

When the restoration is canceled, not all the data is written to the controller and the controller may not operate properly.

When the restoration is canceled, execute the restoration again.

The STOP status is not canceled even though the restoration is canceled. Restart the controller by the user.

(4) Configuration of the controller at the restoration

The configuration of the controller must be the same as the one at the backup.

When the configuration of the controller at the restoration differs from the one at the backup, the restoration cannot be executed.

When the configuration of the controller at the restoration is the same as the one at the backup, the restoration can be executed even though the connection type or CH No. does not match.

When the FXCPU is connected, the model, memory cassette (whether it is installed or not), and memory capacity of the memory cassette must be the same as the ones at the backup.

(5) Operation of the controller

The controller may operate unexpectedly by changing a set value or device value at the restoration. To execute the restoration, sufficiently check the data to be restored and the operation of the controller.

■3. Precautions for backing up and restoring data

(1) Password for the backup/restoration

When the password on the controller side is changed after the password for the backup/restoration has been set, the password for the backup/restoration needs to be changed.

For how to set a password for the backup/restoration, refer to the following.

15.8.5 Security and password

(2) Precautions for using GT Designer3 (GOT2000)

Do not perform the following operations in GT Designer3 (GOT2000) while the backup or restoration is executed.

Operation in GT Designer3 (GOT2000)

Installing the BootOS

• Writing the package data and installing a communication driver, basic system application, and advanced system application

When the operations above are performed, the backup or restoration processing is canceled.

(3) Precautions for using GX Developer

(a) Do not access the target controller of the backup or restoration using GX Developer while the backup or restoration is executed.

Accessing the target controller cancels the backup or restoration processing.

(b) Do not execute the backup or restoration while the target controller is accessed using GX Developer.

If doing so, a communication error occurs in GX Developer. (The backup or restoration processing is executed.)

(4) CPU to which a security key is set

The data in the CPU to which a security key is set cannot be backed up or restored.

To back up or restore the data, review the CPU setting.

When both the CPU with a security key and the one without a security key exist in the target controller of the backup or restoration, only the data in the CPU without a security key can be backed up or restored.

■4. Precautions for using the QCPU

Restoring data to the QCPU in the factory shipment status or whose memory is formatted can be performed only in the following cases.

• When the single CPU system is used: The connection type is the direct CPU connection.

• When the multiple CPU system is used: The connection type is the direct CPU connection.

However, the restoration cannot be executed at once to multiple CPUs in the multiple CPU system including the QCPU that is in the factory shipment status or whose memory is formatted. Execute the restoration for each CPU.

Restore the data to CPU No.1.

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■ 5. Precautions for using the FXCPU

(1) When a memory cassette is installed

When a memory cassette is installed, the data in the memory cassette is backed up. When a memory cassette is not installed, the data in the built-in memory is backed up.

(2) Keyword setting

The following table shows whether the backup/restore function can be executed or not for each keyword setting.

							() :	Available	e, $ imes$: No	ot available)
	Protect that cannot be canceled		With keyword							
Function	Write Protect	R/W Protect	All operation protect	Write I	Protect	R/W F	Protect	All ope pro		Without keyword
	Protect	Protect	Protect	Protect	Clear	Protect	Clear	Protect	Clear	
(Trigger) Backup	0	\times	×	0	0	\times	0	\times	0	0
Restoration	×	\times	×	\times	0	\times	0	\times	0	0

(3) Keyword at the restoration

The keyword of the restoration target FXCPU is held at the restoration. For how to set or clear the keyword of the FXCPU, refer to the following.

GOT2000 Series User's Manual (Utility)
 Programming manual for the FXCPU used

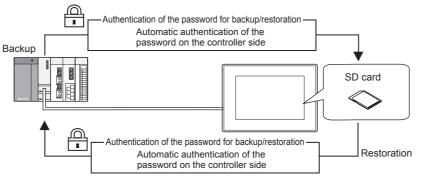
(4) Backup data including the symbolic information

When the restoration target FXCPU does not support the symbolic information, the backup data including the symbolic information cannot be restored.

15.8.5 Security and password

By setting a password for the backup/restore function, the authentication using a password can be conducted at the backup or restoration.

The password for the backup/restoration and the password on the controller side are used for the authentication.



The following shows the passwords used at the backup or restoration.

Password	Description
Password for the backup/restoration	This is a password for the authentication at the backup or restoration. Set this password with the GOT at the first backup. To set this password, a password on the controller side has to be set in advance.
Password on the controller side	This is a password set to the backup/restoration target file of the controller. Set this password using the setting software of the controller when the file is written to the controller.

Inputting the password on the controller side is not required at the backup or restoration after the first backup (setting of the password for the backup/restoration). (The authentication of the password on the controller side is conducted automatically.) Therefore, users have the following merits on the security.

User	Merit
Administrator	Disclosing the password on the controller side to operators on site is not required. (This prevents from browsing or editing the setting information of the controller by a person other than the administrator.)
Operators on site	Data can be backed up or restored by using the password for the backup/restoration only. (Inputting the password on the controller side is not required.)

POINT

Before setting the password for the backup/restoration

When the password for the backup/restoration is forgotten, the backup and restoration cannot be executed.

When the password for the backup/restoration is forgotten, format the SD card used or use a new SD card to back up the data again.

For how to set a password for the backup/restoration, refer to the following.

■ 1. Setting the password for the backup/restoration

For how to use the password for the backup/restoration after the setting, refer to the following.

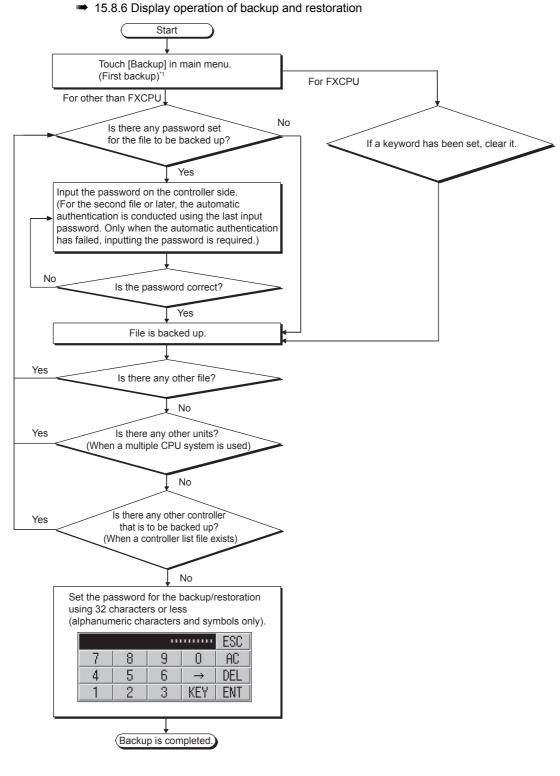
2. How to use the password for the backup/restoration

15

Setting the password for the backup/restoration

The password for the backup/restoration can be set only when the following conditions are satisfied at the first backup. • A password has been set to the backup target file of the controller.

The authentication using the password on the controller side is required at the first backup. The following shows the operation procedure at the first backup. For details of the operation screen, refer to the following.



*1 For the details, refer to the following.

15.8.6 Display operation of backup and restoration

POINT

(1) Setting a password

To secure the security, using eight characters or more that cannot be easily guessed as the password for the backup/restoration is recommended.

If the password is compromised, a system with the same configuration may be created. Pay full attention to manage the password.

(2) Keyword for the FXCPU

To back up or restore data in the FXCPU, clear the keyword in advance.

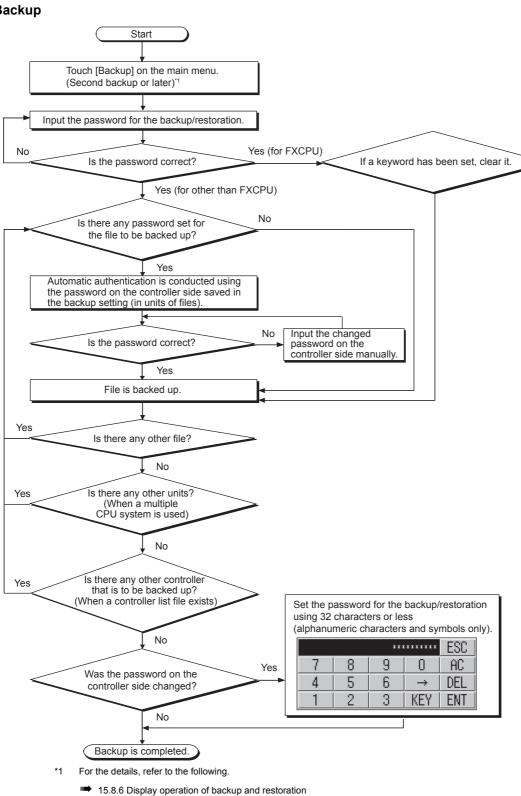
15.8.9 Keyword operations

2. How to use the password for the backup/restoration

The following shows the operation procedure of the backup after the password for the backup/restoration has been set. For details of the operation screen, refer to the following.

15.8.6 Display operation of backup and restoration





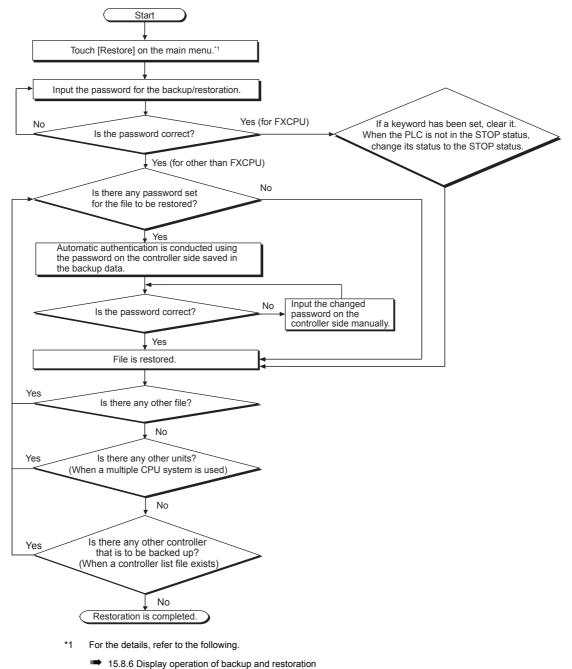
POINT

Precautions for backing up data after the password on the controller side has been changed

When the password on the controller side is being input manually and inputting the password is canceled to stop the backup, all the files that have been backed up before the cancellation are discarded.

(2) Restoration

The following shows the operation procedure of the restoration after the password for the backup/restoration has been set.

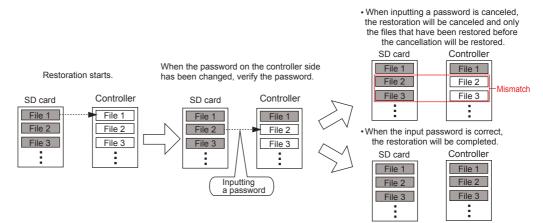


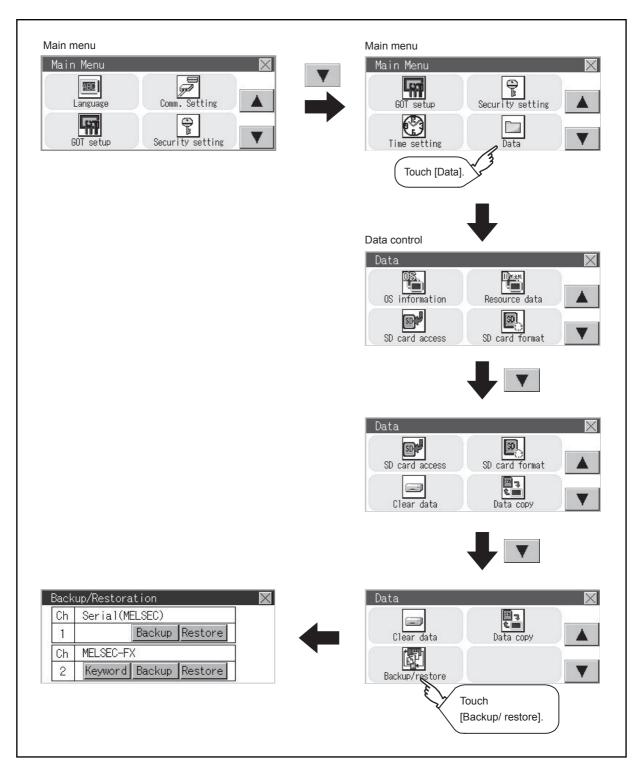
POINT

Precautions for restoring data after the password on the controller side has been changed

When the password on the controller side is being input manually and inputting the password is canceled to stop the restoration, only the files that have been restored before the cancellation are restored.

When only a part of the files are restored, some data mismatch may occur in the whole system.





*1 For a controller other than FXCPU, the [Keyword] switch is not displayed.

15.8.7 Backup operation

This section describes the backup operation screen. The screen operation procedure varies depending on the PLC CPU model used and whether or not passwords have been set. For details of the operating procedure, refer to the following.

➡ 15.8.5 Security and password

Step 1. Touch [Backup].

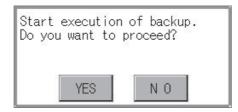
Ch	Serial(MELSEC)		
1	Back	up Re	estore	
Ch	MELSEC-FX			
2	Keyword Back	up Re	estore	

Step 2. Touch [Execute].

Touch operations on the switches ([CPU No.1], [CPU No.2], [CPU No.3], and [CPU No.4]) are invalid.

Backup CPUNo		\times
CPUNo.1	CPUNo.2	
CPUNo.3	CPUNo.4	Execute

Step 3. When the screen shown below appears, touch [YES].



Step 4. When the screen shown below appears, touch [OK], and input a password using the key window.



Step 5. If a password has been set for the program of the PLC CPU, the screen shown below appears. Touch [OK], and enter the password in the key window.

When inputting passwords have been finished, the backup processing will be executed.

Input a password.
Ch1:1/Nw:000/PC:FF/#1 MAIN.QPG
0 K

Step 6. The screen shown below will be displayed during execution.

Now executing
Ch1:1/Nw:000/PC:FF/#1 MAIN.QPG
Cancel

Step 7. When the backup is completed, the screen shown below appears. Touch [OK].



For FXCPU, the following screen appears. Touch [OK] and input a password.

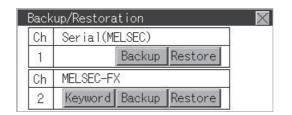
Backup	is completed.	
	0 К	

15.8.8 Restoration operation

This section describes the restoration operation screen. The screen operation procedure varies depending on the PLC CPU model used and whether or not passwords have been set. For details of the operating procedure, refer to the following.

15.8.5 Security and password

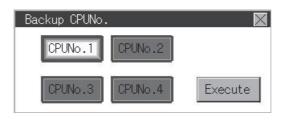
Step 1. Touch [Restore].



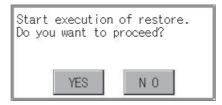
Step 2. Select a CPU No. to be restored from the switches ([CPU No.1], [CPU No.2], [CPU No.3], and [CPU No.4]). If the controller is FXCPU, touch operations on the switches ([CPU No.1], [CPU No.2], [CPU No.3], and [CPU No.4]) are invalid.

Backup CPUNo		\times
CPUNo.1	CPUNo.2	
CPUNo.3	CPUNo.4	Execute

Step 3. Touch [Excute].



Step 4. When the screen shown below appears, touch [YES].



Step 5. When the screen shown below appears, touch [OK], and input a password using the key window.



Step 6. If a password has been set for the program of the PLC CPU, the screen shown below appears. Touch [OK], and enter the password in the key window.

When inputting passwords have been finished, the restoration processing will be executed.

Input a pass	sword.
Ch1:1/Nw:000 MAIN.QPG)/PC:FF/#1
	0 K

Step 7. The screen shown below will be displayed during execution.

Now executir	ıg
Ch1:1/Nw:000)/PC:FF/#1
MAIN.QPG	Cancel

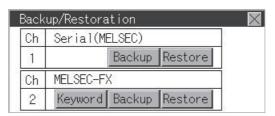
Step 8. When the restoration is completed, the screen shown below appears. Touch [OK].



15.8.9 Keyword operations

When the connected FX series PLC is protected by a keyword, the keyword protection can be removed.

Step 1. Touch [Keyword].



- Step 2. The screen shown below appears. Remove the protection for the FX series PLC.
 - 11.7 Keyword

Keyword			\times
The keywo	ord of MELS	EC-FX is	operated.
Regist	Delete	Clear	Protect

15.8.10 Errors and corrective actions

■1. Common to backup and restoration

Problem	Cause	Corrective action			
Backup data cannot be found.	Backup data has not been saved in the installed SD card. An SD card is not on the drive specified as the storage location for backup settings.	 Install an SD card in which the backup settings are saved. Check the utility for the storage location for backup data. 			
The input password is invalid and the backup/restoration cannot be executed.	The password was forgotten or the input password is incorrect.	 Get the password for the backup data from the system or device administrator. Format the SD card or install a new SD card, and perform the backup again. 			
The backup/restoration of an FXCPU sequence program cannot be performed.	The sequence program has been protected with a block password.	Clear the block password setting for the sequence program.			
An error occurs in the controller	The communication settings or the communication driver of the GOT are incorrect.	Check if the communication settings or communication driver of the GOT are correct.			
during the backup/restoration. The backup/restoration cannot be	The GOT is not recognized because the controller's parameters are incorrect.	Check if the controller's parameters have been correctly set using a tool for the controller, such as GX Developer.			
performed.	The controller is not powered on.	Power on the controller.			
	Cables are not correctly connected.	Check the cables.			

■2. Backup

Problem	Cause	Corrective action		
	No SD card has been installed.	Install an SD card in the drive specified as the storage location for the backup settings/backup data.		
	There is no available space on the SD card.	Install an SD card that has sufficient space. Delete unnecessary files on the SD card.		
Backup data cannot be written to an SD card.	The SD card is write protected.	Enable writing data to the SD card. File attributes cannot be changed on the GOT. Change the attributes on a personal computer.		
	The drive does not exist.	Check if the drive specified as the storage location for the backup settings/backup data exists (if an SD card has been installed).		
Setting information (files/data) cannot be acquired from the controller.	There is a problem that prevents the communication with the controller.	Check the following settings. GOT side • Are cables correctly connected? • Has a correct communication driver been installed? • Are communication settings correct? Controller side • Have parameters been set? • Are cables correctly connected? • Is the power on?		
Since a password has been set to the file, the backup cannot be performed to the file.	The password was forgotten or the input password is incorrect (first backup). The file password has been changed.	Get the file password from the system or device administrator.		

■3. Restoration

Problem	Cause	Corrective action
Setting information (files/data) cannot be written to the controller.	There is a problem that prevents the communication with the controller.	Check the following settings. GOT side • Are cables correctly connected? • Has a correct communication driver been installed? • Are communication settings correct? Controller side • Have parameters been set? • Are cables correctly connected? • Is the power on?
	The controller in the backup data and the actual controller are different.	 Check if the selected backup data is for the target system. Check if the restoration target controller is the same controller as the one used when the backup was performed or an equivalent.
Since a password has been set to the file, the restoration cannot be performed to the file.	The password of the file written in the controller has been changed.	Get the file password from the system or device administrator.

16. GOT SELF CHECK (DEBUG)

The debug includes functions to check the PLC system status and to improve troubleshooting efficiency. The following is available as the debug.

Item	Description	Reference
Device monitor	Device monitor For a controller connected to the GOT, forcibly turning on or off devices of the controller and changing the set value or present value are available.	
FX3U-ENET-ADP communication setting function	The communication set value of the FX3U-ENET-ADP stored in the CPU can be changed.	➡ 16 - 41

16.1 Device Monitor Function

For a controller connected to the GOT, forcibly turning on or off devices of the controller and changing the set value or present value are available.

16.1.1 System configuration

This section describes the controller names and connection types between the GOT and a controller that are applicable to the device monitor function.

For details of communication units and cables for each connection type, refer to the following manual.

GOT2000 Series Connection Manual for GT Works3 Version1

■1. Target controller

Controller	Connection type
RCPU	Ethernet connection, Computer link connection
FX5CPU	Ethernet connection, Direct CPU connection
QCPU (Q mode), LCPU	Ethernet connection, Direct CPU connection, Computer link connection, CC-Link(G4) connection
QnACPU	Direct CPU connection, Computer link connection
ACPU, QCPU (A mode)	Direct CPU connection
FXCPU	Ethernet connection, Direct CPU connection
Inverter	Inverter connection
Microcomputer	Microcomputer connection (Ethernet), Microcomputer connection (Serial)
MODBUS	MODBUS(R)/TCP connection, MODBUS(R)/RTU connection

■2. Required system application

	Sy	Version	
Basic	system application	-	
		Ethernet(MELSEC)	
		Ethernet(FX)	
		MODBUS/TCP	-
		SERIAL(MELSEC)	
	Communication driver	MELSEC-A	
	Communication unver	MELSEC-FX	-
		CC-Link(G4)	
		FREQROL 500/700/800, Sensorless servo	
		Microcomputer connection	-
		MODBUS/RTU	

POINT

Checking method of the version of basic system application and communication driver

Check the version of the basic system application and communication driver installed in the GOT at [System Application Information] of the utility. Refer to the following for details.

■ 15.2 OS information

16.1.2 Devices that can be monitored

For further information about the monitor device names that can be monitored and the scope, see the following:

GT Designer3 (GOT2000) Help

16.1.3 Precautions

■1. Monitoring and testing real number data

Real number data cannot be monitored and tested. All word devices containing real number data are monitored in integer data (binary data).

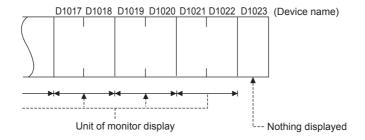
2. Monitoring devices in 32-bit (two-word) module

When monitoring word devices (T, C, D, W, etc.) in 32-bit (two-word) module, those with 32 bits of data remaining are monitored.

Devices with 16 bits (one-word) of data remaining are not monitored.

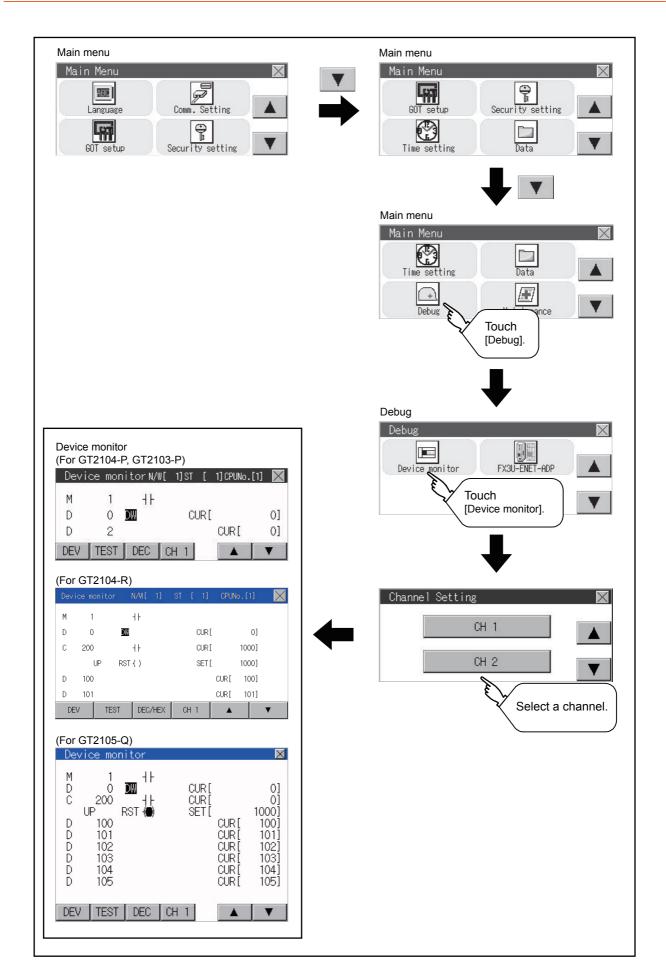
If an odd number is specified for the first monitor device number, the last device number of the specified controller will not be displayed.

(Example) When the data entry of the QnACPU is monitored in units of 32 bits from odd numbers (D1, D3...)



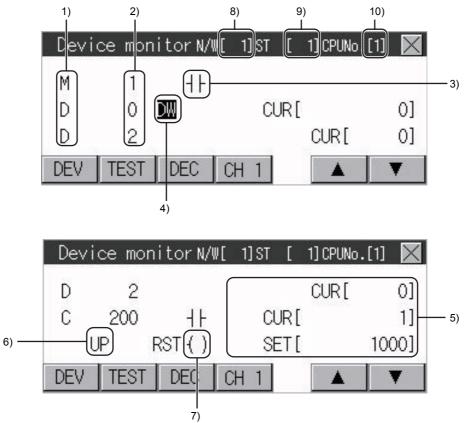
3. Setting the network No., station No., and CPU No.

Setting of the network No., station No., and CPU No. may be required depending on the connection type. In this case, register the device after setting the network No., station No., and CPU No.



■1. Device monitor screen

The information displayed on the device monitor screen is described below.



No.	Item	Settings
1)	Device name	Displays the device name.
2)	Device No.	Displays the device number.
3)	Bit device ON/OFF Timer/Counter contact ON/OFF	Displays ON/OFF information of bit devices and timer/counter contacts
4)	Data type	DW: Indicates that the device value is a 32-bit (two-word) module. Nothing displayed: Indicates that the device value is a 16-bit (one-word) module.
5)	Present value of word device Present value and set value of timer/ counter ^{*1}	[Decimal number] 16-bit (one-word) module: Six digits (including a digit for a sign) are displayed. (Display example: -12345) 32-bit (two-word) module: Ten digits (including a digit for a sign) are displayed. (Display example: -123456789) [Hexadecimal number] 16-bit (one-word) module: Four digits are displayed. (Display example: H AB12) 32-bit (two-word) module: Eight digits are displayed. (Display example: H AB12) 32-bit (two-word) module: Eight digits are displayed. (Display example: H AB12) ABCDE123)
6)	Counting method	Displays the counting method when registering the counters from C200 to C255. UP: Up count mode DOWN: Down count mode
7)	Reset coil ON/OFF	Displays the reset coil state when registering the timer/counter for the FXCPU. () : OFF
8)	Network No.	Sets or displays the network No. when the PLC is on the network.
9)	Station No.	Sets or displays the station No. when the station No. is assigned to the PLC.

No.	Item	Settings
10)	CPU No. specification	 0 to 4: This item must be set only when the GOT is connected to the Q series CPU in the multiple CPU system or QnUCPU. Changing the CPU No. cancels the registration for all the devices. ➡ 16.1.7 Device registration

*1 When a timer or counter of the ACPU, QnACPU, or FXCPU is registered, the set value of the timer or counter is displayed.

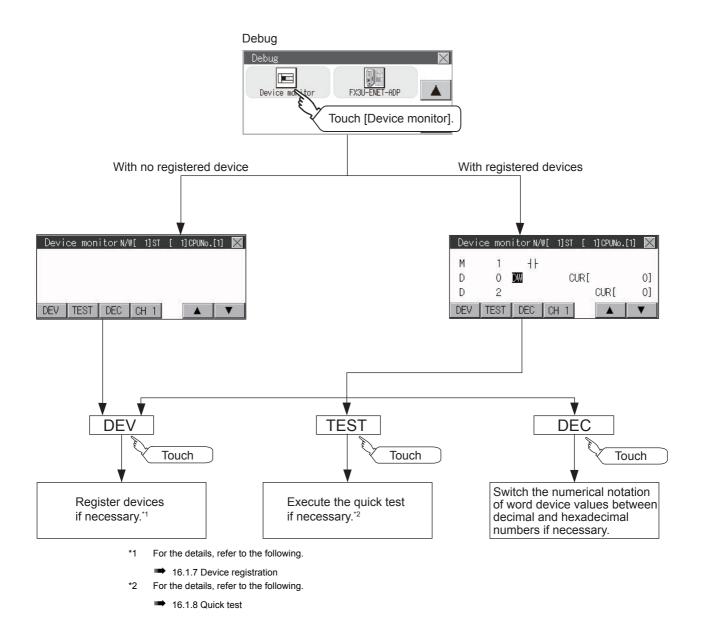
■2. Key functions

The following table describes the key functions displayed on the device monitor screen.

Key switch	Function
DEV	Switches the screen to the device registration key window for registering devices to be monitored. 16.1.7 Device registration
TEST	Switches the quick test mode between enabled and disabled states. 16.1.8 Quick test
DEC/HEX	Switches the numerical notation of word device values between decimal and hexadecimal numbers.
CH1 or CH2	Switches the channel to be displayed.
	Scrolls the data list up and down by one line and displays the devices before or after the device which is currently registered and placed in the top or bottom line.
	▲: Scrolls the list up by one line to display the device number right before the device number displayed in the top line.
	Scrolls the list down by one line to display the device number right after the device number displayed in the bottom line.
\boxtimes	Exits the device monitor, and then the screen returns to the debug screen.

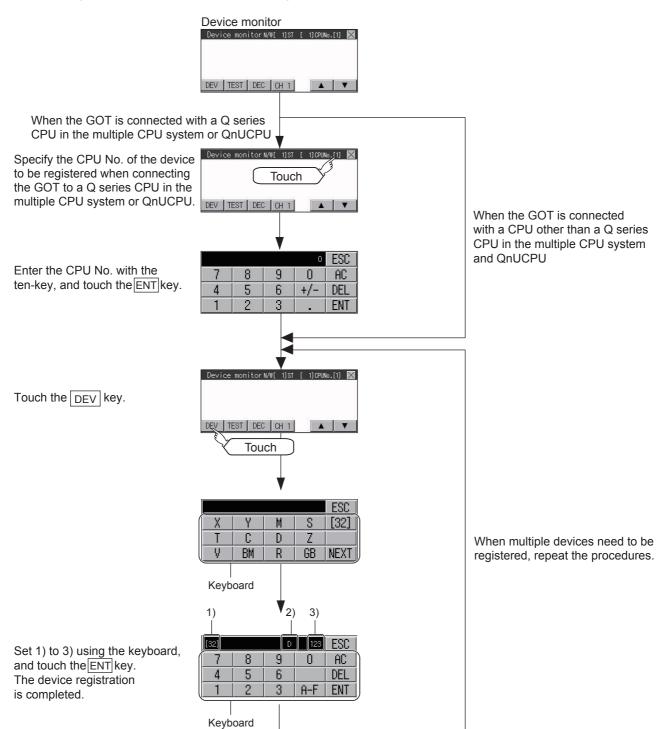
16.1.6 Basic operation of device monitor

The following explains basic operations of the device monitor.



16.1.7 Device registration

The following explains the procedures for device registration.



For the keyboard operations, refer to the next page.

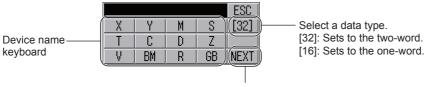
No.	Item	Settings
1)	Data type	32: Indicates that the device value is a 32-bit (two-word) module. Nothing displayed: Indicates that the device value is a 16-bit (one-word) module.
2)	Device name	Set the device name and device number to be monitored.
3)	Device No.	

16



Keyboard operations

(1) Keyboard functions



Displays other device names.

	[32]		D	123	ESC	
(7	8	9		(AC)	Ends the device registration.
Device name	4	5	6		(DEL)	——— Deletes all input numbers.
keyboard	1	2	3	A-F	(ENT)	Registers the input device. (The device registration is completed.)

(2) Input procedures

Select a data type. (Ex: 16 bits)

[32]				ESC	Touch the	[16]	key.					ESC
X	Y	М	S	[16]				X	Y	M	S	[32]
T	C	D	Z				-	Т	С	D	Z	
V	BM	R	GB	NEXT	Touch the	[32]	key.	V	BM	R	GB	NEXT

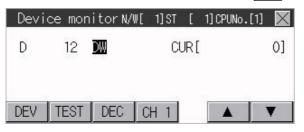
Input a device number. (Ex: 12)

[32]		D	12	ESC
7	8	9	0	AC
4	5	6		DEL
1	2	3	A-F	ENT

Input a device name. (Ex: D)

[32]		D		ESC
- 7 -	8	9	0	AC
4	5	6		DEL
1	2	3	A-F	ENT

The device registration is completed by touching the ENT key.



POINT

Precautions for device registration

(1) Data type

- Device monitor screens display the data type as shown below.
 - DW: 32-bit (two-word) module
 - Nothing displayed : 16-bit (one-word) module

(2) CPU No. specification

Changing the CPU No. after registering devices cancels the registration for all the devices. Check the CPU No. before registering the devices.

(3) Station No. specification

Changing the station No. after registering devices cancels the registration for all the devices. Check the station No. before registering the devices.

(4) N/W (Network) No. specification

Changing the N/W No. after registering devices cancels the registration for all the devices. Check the N/W No. before registering the devices.

(5) Holding registered devices

The registration for the devices is not canceled after exiting the device monitor. Restarting the GOT cancels the registration for all the devices.

(6) The number of registered devices

The number of registered devices must be within the maximum number of devices that can be displayed on the GOT.

For registering an additional device, the registration for the device in the top line is canceled and the additional device is displayed in the bottom.

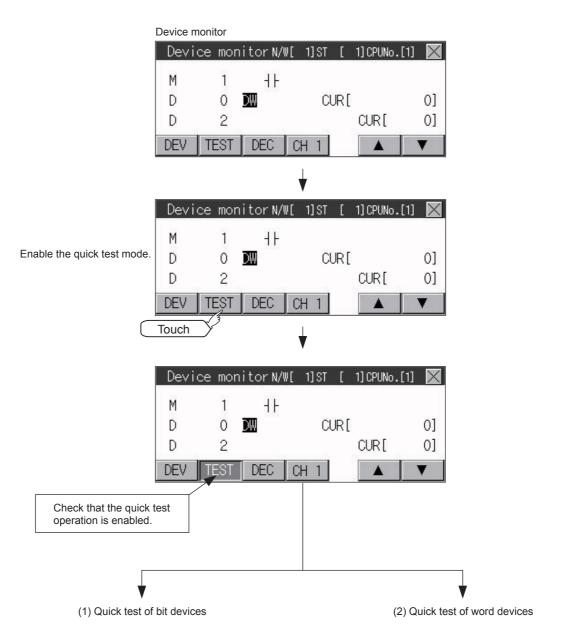
16

16.1.8 Quick test

• Before performing the quick test operations of device monitor (such as turning ON or OFF bit device, changing the word device current value, changing the settings or current values of the timer or counter), read through the manual carefully and make yourself familiar with the operation method.

During quick test operation, never change the data of the devices which are used to perform significant operation for the system. False output or malfunction can cause an accident.

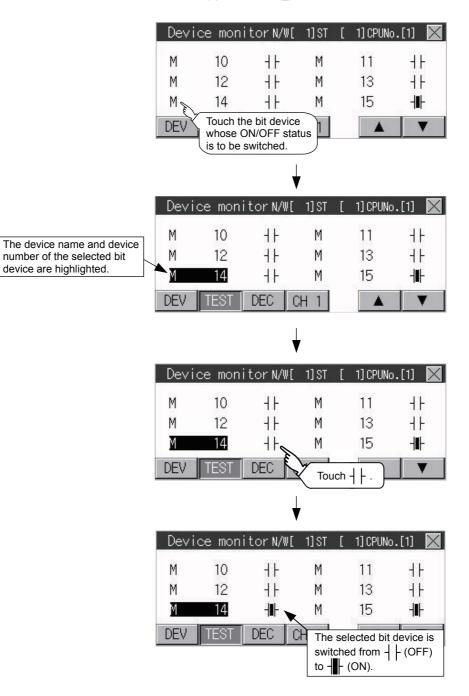
The quick test operation procedure for monitor devices is described below.



■1. Quick test of bit devices

(Operation example)

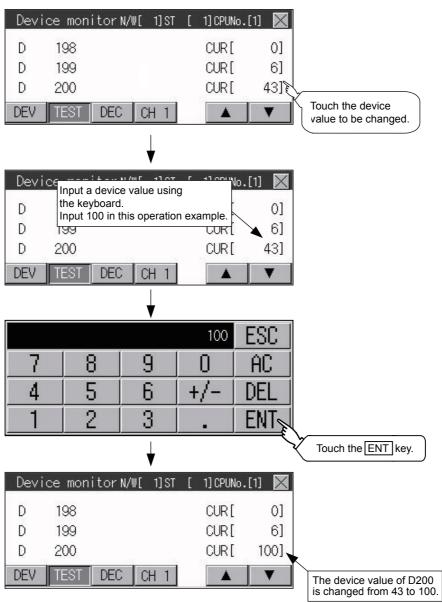
Change the status of the bit device M14 from OFF + to ON + .



■2. Quick test of word devices

(Operation example)

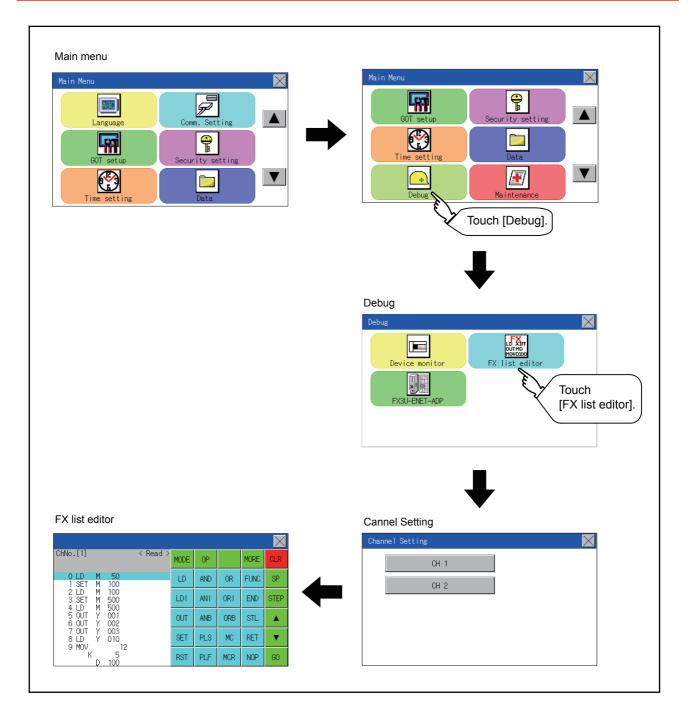
Change the device value of word device D200 from 43 to 100. Conditions: Data range: 16 bits, device value display format: decimal number



16.2 FX List Editor (GT2105-Q, GT2104-R only)

The MELSEC-FX list editor can change the sequence programs on the FX PLC. The following example explains about GT2104-R.

16.2.1 Display operation of FX list editor



16

■1. Parameters and sequence programs are easy to maintain.

You can check or partly correct, change or add FX PLC parameters and sequence programs simply by operating keys. You can easily edit sequence programs without preparing any peripheral unit other than the GOT.

(Example of changing sequence program commands)



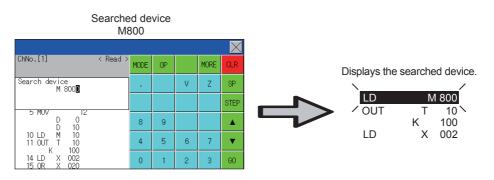
2. Errors that occur during list editing can be checked easily.

Error messages, error codes, and number of steps for errors that occur in the FX PLC can be checked. Details can be checked immediately even for errors that occur during list editing.

			\times
Error message	De	tail	Step
Circuit error	I	6612	4

3. Commands and devices can be searched and displayed.

Commands and devices used in sequence programs can be searched. The correction position can be searched for cases such as when you want to correct a specific device.



16.2.2 Specifications

■1. System configuration

This section describes the system configuration of the MELSEC-FX list editor. For the setting method in each connection form, used communication unit/cable and cautions on connection form, refer to the following manual.

GOT2000 Series Connection Manual For GT Works3 Version1

■2. Controllers that can be edited with the MELSEC-FX list editor

Target controller*1	
FX CPU	

*1 FX list editor is not applicable to for MELSEC iQ-F series.

■3. Connection forms

*2

This function can be used in the following connection types. (O: Available, ×: Unavailable)

	Function name	Connection form between GOT and PLC				
Name	Description	Direct CPU connection	Ethernet co	onnection ^{*1}		
MELSEC-FX list editor	Sequence program writing, parameter setting, PLC diagnostics and keyword registration, etc.	0	O ^{*2}	×		

*1 MELSEC-FX list editor cannot be used when using CC-Link IE field network Ethernet adapter.

Available only when using FX3 series.

4. Functions list and monitor conditions

The following shows the memory that can be monitored by the MELSEC-FX list editor and the FX PLC status conditions.

Function			Memory that car	n be monitored *	2		
		Built-in memory	RAM memory cassette	EEPROM memory cassette, flash memory cassette	EPROM memory cassette	FX PLC status	Reference
Reading Displaying sequence programs		0	0	0	0	RUN/STOP	➡ 16.2.8
programs	programs Searching commands/ devices		0	0	0	KUN/STOP	➡ 16.2.9
Writing Writing commands							➡ 16.2.10
pro gromo	· Changing operatios/						➡ 16.2.11
Inserting comn	nands	0	O O ∆*1 ×	×	For Stop only	➡ 16.2.10	
Deleting comm	nands						➡ 16.2.12
Sequence program all clear							➡ 16.2.13
PLC diagnostics		0	0	0	0	RUN/STOP	➡ 16.2.14
Display		0	0	0	0		
	Parameter setting Setting		0	∆*1	×	For Stop only	➡ 16.2.15
Keyword		0	0	0	0	RUN/STOP	➡ 16.2.16

(O: Can be monitored △: Can be monitored under certain conditions ×: Cannot be monitored)

*1 The operation is available only when the protect switch is OFF.

*2 The available memory differs depending on the FX PLC being used. For details, refer to the following.

The hardware manual of the FX PLC being used

16.2.3 Access range

For the FXCPU in Ethernet connection, the GOT can monitor only the host station.

The access range other than the above is the same as the access range when the GOT is connected to a controller. For details of the access range, refer to the following.

GT Designer3 (GOT2000) Help

GOT2000 Series Connection Manual (Mitsubishi Product) For GT Works3 Version1

16.2.4 Precautions

■1. Using other peripheral equipment for sequence program/parameter change

When using the MELSEC-FX list editor, do not change programs or parameters in the PLC CPU from other peripheral equipment.

If programs or parameters are changed, exit the MELSEC-FX list editor once and start the MELSEC-FX list editor again.

If the program on one PLC is changed carelessly from multiple units of peripheral equipment (including GOT), the contents of the program in the PLC CPU and the peripheral equipment may not be the same, resulting in an unintended operation of the PLC CPU.

2. Sequence program change

Stop the FX PLC before changing (writing, inserting, deleting) a sequence program or changing parameters. Operation is not possible with the FX PLC running.

■3. If you press the [GO] key but the system does not proceed to the next operation (for example, a search)

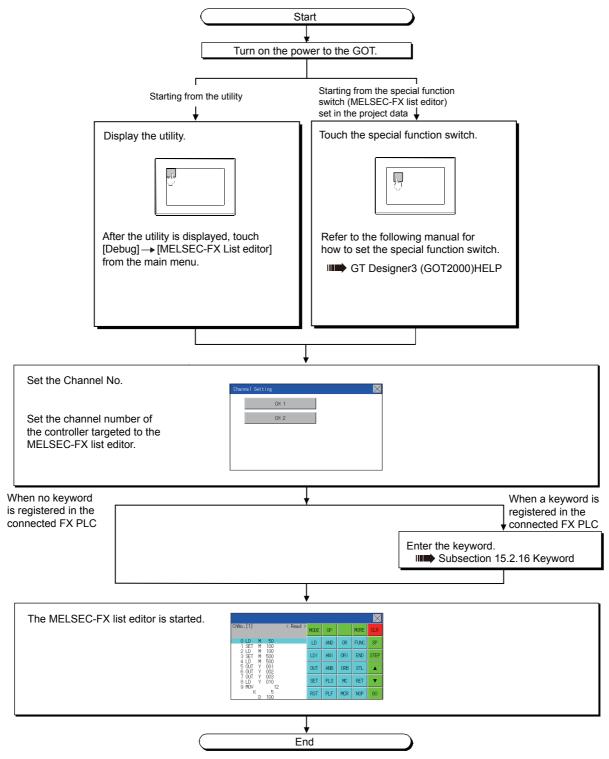
Check the input contents (applied instruction number, device value, etc.).

■4. When using list monitor

Only devices to be used for basic instructions can be monitored. The status of devices (word, bit) to be used for application instructions cannot be monitored.

■1. Operation to display

The following describes the outline for displaying the operation screen of the MELSEC-FX list editor.



POINT

(1) How to display the utility

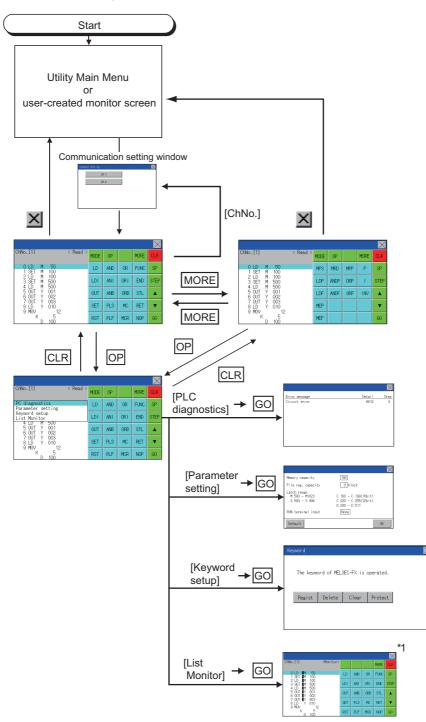
For how to display the utility, refer to the following.

- ➡ 9.2 Utility Function List
- (2) If the project data has not been downloaded

```
The MELSEC-FX list editor can be started from the utility even if the project data has not been downloaded to the GOT.
```

■2. Changing screens

This section describes how to change the screen.



*1 With setting special function switches (FX list monitor), the list monitor can be started on the monitor screen. When the list monitor is started on the monitor screen, the list editor cannot be used. For how to set special function switches, refer to the following.

GT Designer3 (GOT2000) Help

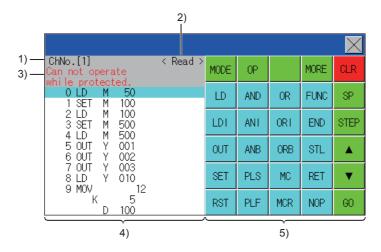
16.2.6 Operation procedures

This section describes the contents of the MELSEC-FX list editor and the key functions displayed on the screen.

■1. Key arrangement and a list of key functions

The arrangement and functions of the keys displayed on the MELSEC-FX List Editor window are described below.

2. Displayed contents



No.	Item	Display contents					
1)	Channel No	Displays the currently selected channel number. Touching "ChNo." displays the communication setting window. The communication setting window is not displayed if the MELSEC-FX list editor is started from the FX ladder monitor.					
2)	Mode Displays a mode for MELSEC-FX list editor. ••• 16.2.7 Selection and operation of modes [Monitor] is displayed when the list monitor is executed. ••• 16.2.17 List monitor						
3)	Error message Displays the contents of errors that occur with the MELSEC-FX list editor. Image: 16.2.19 Error messages and corrective actions						
4)	List display areaDisplays the sequence program in list format (12 digits). The position (line) that can be edited is displayed with a bar.						
5)	Key area	Displays the keys that can be used with the MELSEC-FX list editor.					

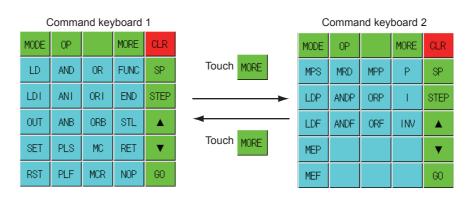
■3. Key functions

The table below shows the functions of the keys that are used for the operation on the MELSEC-FX list editor screen.

Кеу	Function							
ChNo.[1]	Displays the currently selected channel number. The communication setting window is not displayed if the MELSEC-FX list editor is started from the FX ladder monitor.							
MODE	Selects a mode for MELSEC-FX list editor. 16.2.7 Selection and operation of modes							
OP	Displays the PLC diagnostics, parameter setting, and keyword selection menu.							
MORE	Switches between command keyboard 1 and command keyboard 2. ➡ ■ 4. Keyboard switching							
CLR	 When inputting commands: Cancels the key input when only part of the command has been input. 16.2.18 Action for an incorrect key input When option menu is displayed: Closes the option menu. Commands cannot be deleted with this key. 16.2.12 Deleting commands 							
SP	Space key. This key is used when setting timers and counters, writing applied commands, etc.							
STEP	Displays the list from a specified step number when the step number is input.							
	Moves the list display area bar up and down and switches the line being edited.							
60	Determines the key operation.							
LD to INV, 0 to 9, etc.	Inputs commands, device names, etc. The key contents depend on the input contents. The commands that can be used differ depending on the target FX PLC. Refer to the manual for the FX PLC to be used.							
×	Exits the MELSEC-FX list editor.							

■4. Keyboard switching

Touching the MORE button switches the command keyboard 1 and command keyboard 2. When you touch the button for a keyboard function, the optimum keyboard for input for that function is displayed automatically.

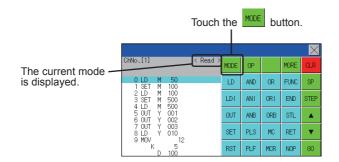


16.2.7 Selection and operation of modes

The MELSEC-FX list editor has four modes: READ, WRITE, INSERT, and DELETE. Select an appropriate mode for the intended operation. For more information on the mode to select, refer to the function operations from subsection 15.3.8.

■1. How to change modes

Touch the MODE button. Each time you touch this button, the mode changes.



2. In the case the mode cannot be changed

In the following cases, the mode can be changed to the READ mode only. If you try to change to other than READ mode, an error message is displayed. To change to other than READ mode, take the action below.

Error message	Cause	Corrective action
PLC is running	The FX PLC is in the RUN status.	Stop the FX PLC.
Can not write.	The protect switch of the EEPROM memory cassette is on.	Switch off the protect switch of the EEPROM memory cassette.
Can not write.	The EPROM memory cassette is enabled.	Set a memory other than EPROM as the memory to write to.

16.2.8 Displaying sequence programs

Sequence programs are read from the FX PLC to the GOT and displayed. There are two displaying methods: specifying the step number, and scrolling one screen at a time.

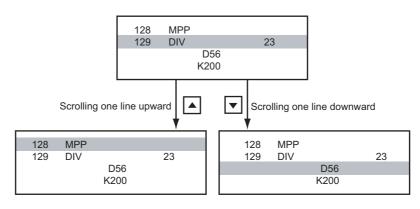
Display using cursor keys

(1) Operation

Scroll with A OR V

(2) Example

Scroll one line upward or downward.



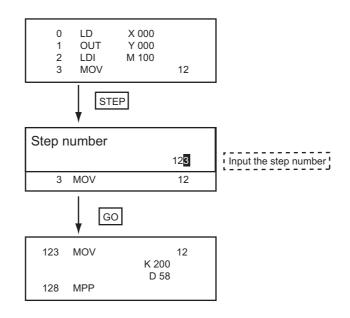
■2. Display specifying the step number

(1) Operation



(2) Example

Displaying step number 123.



POINT

When the specified step number is the operand of an applied instruction

If the specified step number is a timer (T) or counter (C) set value or the operand of an applied instruction, that command section is displayed at the head.

16

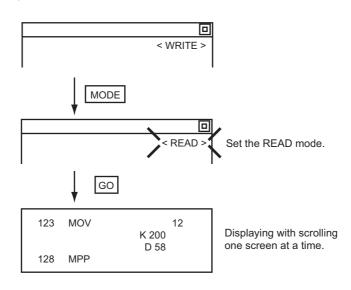
■3. Display scrolling one screen at a time

(1) Operation



(2) Example

Displaying with scrolling one screen at a time.



16.2.9 Searching commands/devices

Displays a command or device by searching it in sequence program from Step 0.

■1. Command search

(1) Operation

*1 If the command you want to search for is not on the keyboard, touch the MORE key to switch to the other keyboard. When searching for an applied instruction, touch the FNC key and input the applied instruction number. When searching for a label, touch P or I and input the pointer number.

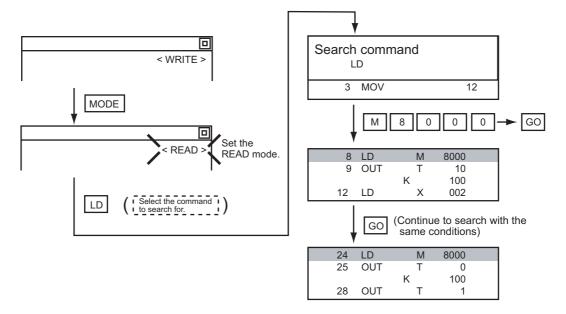
16.2.10 Writing commands

*2 Input only when searching for commands requiring a device name and device number.

*3 After the search results are displayed, you can continue searching with the same conditions by touching the GO key. Touching any key other than the GO key ends the search.

(2) Example

Searching for LD M8000



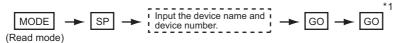
POINT

Pointer (P, I) searches

For pointer searches, only labels are searched. Pointers specified as operands in applied instructions are not searched.

■2. Device search

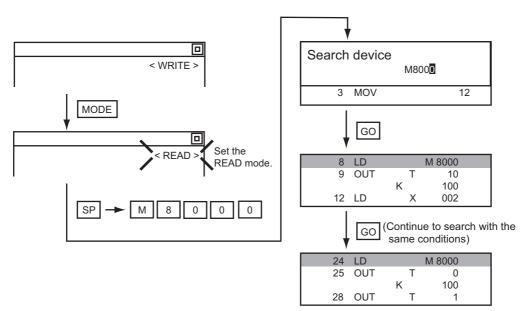
(1) Operation



*1 After the search results are displayed, you can continue searching with the same conditions by touching the GO key. Touching any key other than the GO key ends the search.

(2) Example

Searching for LD M8000



POINT

Devices that cannot be searched

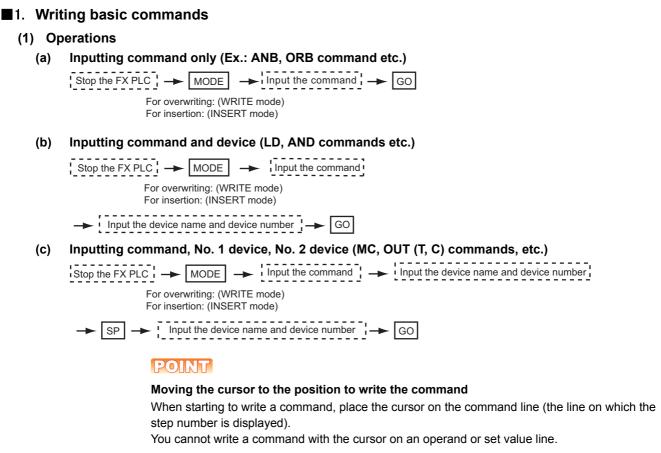
The following devices cannot be searched.

- · Pointers, interrupt pointers
- · Constant K, constant H, constant E
- · Digit specification of bit device
- · Special function unit/block buffer memory
- · Devices specified with the operand of an applied instruction

Pointers and interrupt pointers can be searched for with command searches.

1. Command search

Writes a sequence program to the FX PLC. (Overwrite/Insert)



2	LDI	М	100		٦.
3	MOV			12	
		D	0		ľ
		D	10		- 1

Command line (Place the cursor on this line.)

X 004

GO

X 004

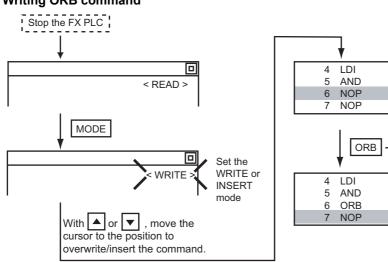
X 005

X 005

Operand, set value line (Cannot operate on this line.)

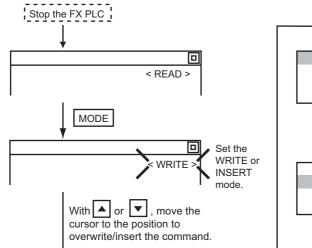
(2) Example

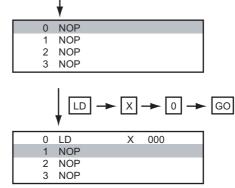
(a) Writing ORB command



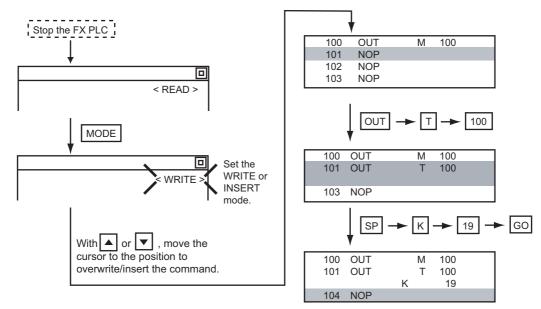
GOT SELF CHECK (DEBUG)

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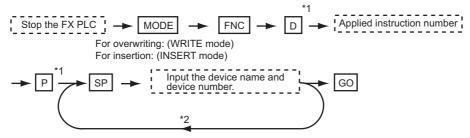
(c) Inputting OUT T100 K19



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■2. Writing applied instructions

(1) Operation



- *1 D (double word command) and P (pulse execution format command) can also be input after the applied instruction number is input.
- *2 Inputting in the order $\mathbb{P} \to \mathbb{D}$ is also possible.
- *3 When a command specifies multiple devices for operations, input the SP key followed by the device name and device number.

POINT

(1) Moving the cursor to the position to write the command

When starting to write a command, place the cursor on the command line (the line on which the step number is displayed).

You cannot write a command with the cursor on any other line.

2	LDI MOV		M 100	12	Command line (Place the cursor on this line.)
		D D	0 10		Operand, set value line (Cannot operate on this line.)

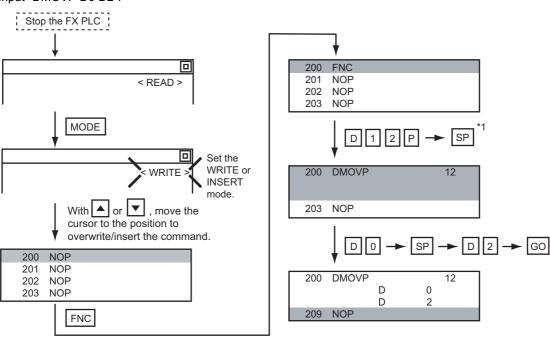
(2) Commands using a text string constant for a command operand (such as ASC command)

With the MELSEC-FX list editor, text string constants cannot be written as operands. (such as ASC commands)

Use GX Developer for writing such commands.

(2) Example

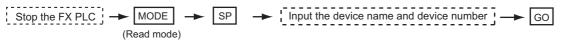
Input "DMOVP D0 D2".



16.2.11 Changing operands, set values

Changes the operand section of an applied instruction and OUT (T, C) command set value.

■1. Operation



*1 For decimal numbers, input K, then the number. For hexadecimal numbers, input H, then the number.

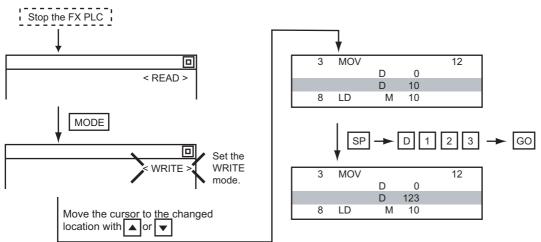
POINT

Moving the cursor to the line on which the operand or set value is to be changed

When starting to change an operand or a set value, place the cursor on the line of the operand or set value to be changed (the line on which the step number is not displayed). If you place the cursor on the command line, the input operation is not possible.

■2. Example

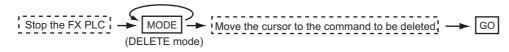
Changing "MOV D0 D10" to "MOV D0 D123"



16.2.12 Deleting commands

Deletes one command at a time from a sequence program.

■1. Operation



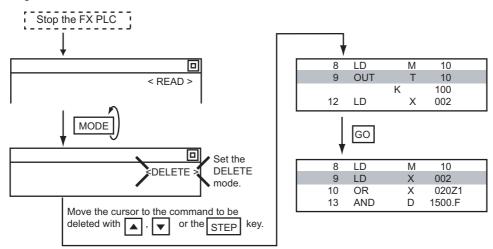
POINT

When moving the cursor to the position where the command is to be deleted. Place the cursor on the command line (the line on which the step number is displayed).

You cannot delete the command if the cursor is placed on the line of an operand or set value.

■2. Example

Deleting "OUT T10 K100"



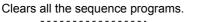
16.2.13 Sequence program all clear

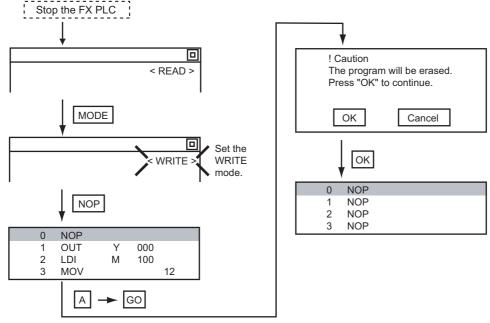
Clears all the sequence programs.

■1. Operation

Stop the FX PLC
$$\rightarrow$$
 MODE \rightarrow NOP \rightarrow A \rightarrow GO (WRITE mode)

■2. Example





POINT

Items cleared when All Clear for a sequence program is performed

When All Clear is executed, the parameters before program execution are initialized and Latch Clear is executed.

The memory space becomes the default value, the comment area a 0 block, the file register space a 0 block, and keywords unregistered.

After All Clear, set the above parameters etc. again.

16.2.14 PLC diagnostics

Displays the FX PLC error message, error code, and step at which the error occurred.

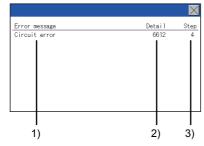
■1. Operation

P -> [PL	C diagi	nosti	cs] ·	-	G	C	
	ļ	OP	-	► Se	elect	[PL	C diagnostics] with 🔺 or 💌
OIN [1]		_				\times	
UnNo.[]]	< Read >	MODE	OP		MORE	CLR	
PC diagnostics Parameter setting		LD	AND	OR	FUNC	SP	
List Monitor		LDI	ANT	ORI	END	STEP	
5 OUT Y 001		OUT	ANB	ORB	STL		
7 00T Y 003 8 LD Y 010		SET	PLS	MC	RET	•	
К 5		RST	PLF	MCR	NOP	GO	
	↓ [d	90					
						X	
Error message Circuit error						Step 4	
	CNNo.[1] PC diagnostice Parameter setting Keyword setup List Monitor 5 UUT Y 001 6 UUT Y 001 6 UUT Y 001 8 LD Y 010 9 MV 12 K 5 D 100 Error message	CNNo. [1] < Read > PC diagnostics Parameter setting Keyword setup List Monitor 5 UUT Y 001 6 UUT Y 003 8 LD Y 010 9 MUY Y 003 8 LD Y 010 9 MUY 12 K 5 L 100 K 5 C Tror message	CNNo. [1] < Read > MODE PC diagnostics Revenord setup List Monitor UDI 5 UUT Y 001 0UT 6 UUT Y 002 0UT 7 UUT Y 003 8ET 9 MV 12 RST V 5 RST ↓ GO Error message	(No. [1]) < Read > MODE OP $(Pc diagnostics) (D) AND Request for Setting (D) AND Setting (D$	CNNo. (1) CNNo. (1)	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

■2. PLC diagnostics screen

The following describes the contents displayed on the PLC diagnostics screen and the function of on-screen key.

(1) Displayed contents



No.	Item	Display contents
1)	Error message	Displays the error message. (I/O configuration error/PLC hardware error/PC/HPP communication error/ Serial communication error/Parameter error/Syntax error/Circuit error/Operation error)
2)	Detail	Displays the error code.
3)	Step	Displays the step number in the sequence program at which the error occurred. (This is displayed only for a syntax error, circuit error, or operation error.)

POINT

Error details

For details of the FX PLC errors, refer to the following.

Programming manual for the FXCPU used

(2) Key function

The table below shows the functions of the keys that are used for the operation on the PLC diagnostics screen.

Кеу	Function
X	Exits the PLC diagnostics.

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16.2.15 Parameter setting

Sets FX PLC parameters.

■1. Parameters that can be changed and change targets

(1) Parameters that can be changed

The parameters that can be changed with the MELSEC-FX list editor and the target FX PLCs are as follows. O: Can be set/changed x: Cannot be set/changed

					0.00	000000		Currier be	oouonang
	Target CPU								
Item	FX0(S) /FX0N	FX1	FX2(C)	FX1S	FX1N(C)	FX2N(C)	FX3S	FX3G(C)	FX3U(C)
Memory space setting	×	0	0	×	×	0	0	0	0
File register space setting	O ^{*1}	×	0	0	0	0	0	0	0
Latch range setting	×*2	0	0	×*2	×*2	0	×	×	0
RUN terminal setting	×	×	×	0	0	0	0	0	0
Initialization of parameters	0	0	0	0	0	0	0	0	0

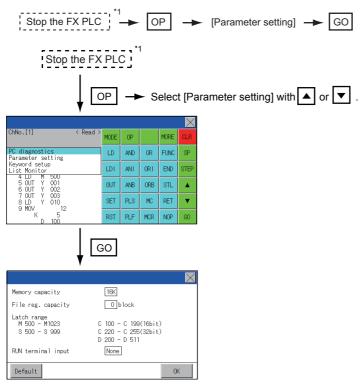
*1 When connecting an FX0(S), set "0". Setting other than "0" causes a parameter error.

*2 When the parameters are initialized, the display on the MELSEC-FX list editor is different from the FX PLC default values, but do not change the latch range. Changing the latch range causes an error.

(2) Change targets

When a memory cassette is mounted, the parameters in the memory cassette are targeted for changes.

■2. Operation



*1 When checking parameters (not changing), it is not necessary to stop the PLC.

■3. Parameter setting screen

The following describes the contents displayed on the PLC diagnostics screen and the function of on-screen key.

(1) Displayed contents

			\times
1) —	Memory capacity	16K	
2) —	File reg. capacity	0 block	
3) —	Latch range M 500 - M1023 S 500 - S 999	C 100 - C 199(16bit) C 220 - C 255(32bit) D 200 - D 511	
4) —	RUN terminal input	None	
5) —	Default	OK	

No.	Item	Display contents			
1)	Memory capacity	Sets the memory space (number of steps). If you touch the ^{*K} section, you can change the memory space.			
2)	File reg. capacity	Sets the memory space (number of blocks) allocated to the file register. Touch the \Box section and input the number of blocks.			
3)	Latch range	Sets the latch range (power failure hold area). Touch the number display section and input the value.			
4)	RUN terminal input	Sets whether or not to use one of the FX PLC input terminals for RUN input. Touch the \Box section and set the device to be set for the RUN terminal.			
5)	Default	Initializes the parameters			

POINT

(1) Memory space for kana comments after changing memory space, file register space If the memory space is set smaller than the total of the file register space and kana comment space, the kana comment space is automatically reduced.

(With the MELSEC-FX list editor, the kana comment space is not displayed.) Note that if any setting as described below is made, the kana comment space is reduced. (Settings that reduce kana comment space and the kana comment space after setting change)

Settings resulting in Nm < Nf × 500 + Nk × 500 + 500

Nm-Nf × 500-500

500

Nm: Memory space after change (steps) Nf: File register space after change (blocks)

Kana comment space (steps) after setting change =

Nk: Comment space before change (blocks)

(2) Settable range and default value

The settable range and the default value depend on the FX PLC type. For details of the settable range and the default value, refer to the following.

Programming manual for the FX PLC used

(2) Key functions

The table below shows the functions of the keys that are used for the operation on the parameter setting screen.

Кеу	Function	
Default	Initializes the parameters	
OK	Completes the changed setting contents.	
×	Ends parameter setting.	

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16.2.16 Keyword

Registers, deletes, releases protection for, and sets protection for the FX PLC keywords.

■1. Function usability of the MELSEC-FX list editor for keyword protection levels

The functions that can be used with the MELSEC-FX list editor depend on the keyword protection level.

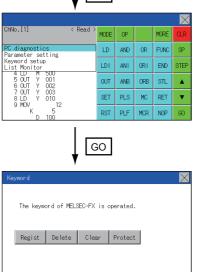
O: Available, X: Unavailable Keyword protection level All operation Keyword not Read/Incorrect protect Erroneous write registered/ Function write protection Reference (All on-line prohibition keyword (Read/write operation (Write protect)*2 protection protect)*2 canceled protect)*2 Displaying × × Ο Ο ➡ 16.2.8 Reading sequence programs sequence Searching programs × × Ο Ο ➡ 16.2.9 commands/devices Writing commands × × × Writing Ο ➡ 16.2.10 sequence Changing operands/ × × × Ο ➡ 16.2.12 programs set values Inserting commands × × × Ο ➡ 16.2.10 Deleting commands × × × 0 ➡ 16.2.12 × × × Sequence program all clear Ο ➡ 16.2.13 O^{*1} PLC diagnostics 0 Ο Ο ➡ 16.2.14 × Parameter setting × × Ο ➡ 16.2.15

*1 When the 2nd keyword is set to an FX PLC that supports 2nd keyword, it becomes "X" (cannot be used).

*2 The names within the parentheses () are for when a keyword + 2nd keyword is set.

■2. Operation

OP → Select [Keyword setup] with ▲ or ▼.



OP → [Keyword setup] → GO

■3. Keyword screen and protection level

When [Keyword setup] is selected with the MELSEC-FX list editor, the keyword screen is displayed. For the keyword operation, refer to the following.

11.7 Keyword

POINT

Keywords

For details of the keyword, refer to the following.

Programming manual for the FX PLC used

16.2.17 List monitor

The status of contacts and coils in a sequence program is displayed.

■1. Operation OP -> [List Monitor] -> GO OP No.[1 Read MOD LD OR FUNC AND setting LDI ANI ORI END 001 002 003 010 OUT ANB ORB SET PLS MC RET RST PLF MCR NOP GO When the list monitor is started on the FX list editor screen, Monito MORE the step numbers displayed on the FX list editor screen is FUNC displayed on the list monitor screen. LD AND OR SP 100 100 500 500 001 002 003 LDI ORI END STEP ANT OUT ANB ORB STL ۸ SET PLS MC RET v RST PLF MCR NOP

POINT

Starting list monitor with special function switches (FX list monitor)

With setting special function switches (FX list monitor), the list monitor can be started on the monitor screen.

When the list monitor is started on the monitor screen, the list editor cannot be used. For how to set special function switches, refer to the following.

Help

■2. Displays and key functions

The following describes the displays for the list monitor.

							\times	₹ 3)
CI	hNo.[1]	<monitor></monitor>				MORE	CLR	J
1)	1 SET M 10	50 00	LD	AND	OR	FUNC	SP	
	3 SET M 50	00 00 00	LDI	ANT	ORI	END	STEP	2)
	5 OUT Y 00 6 OUT Y 00	01 02	OUT	ANB	ORB	STL		
		03 10 12	SET	PLS	MC	RET	•	
	K	5 ¹² 00	RST	PLF	MCR	NOP	GO	J

No.	Item	Display contents
1)	List display area ^{*1}	The status of contacts and coils is displayed on the left of device displays.
2)	Keys	The same operations as in the READ mode of the FX list editor can be executed. 16.2.8 Displaying sequence programs
3)	[×]	Ends the list monitor. (When the list monitor is executed on the FX list editor screen, the screen is switched to the FX list editor screen.)

*1 The status of contacts and coils is displayed as below.

Type of instruction	Description	Status		
	Description	Displayed	Not displayed	
LD, AND, OR (Contact instruction (Normal open))	Contact	ON	OFF	
LDI, ANI, ORI (Contact instruction (Normal close))	Contact	OFF	ON	
OUT. SET	TC: Coil	ON	OFF	
001, 321	Except TC: Contact	ON	OFF	
	TC: Reset	ON	OFF	
RST	Word device	Value: 0	Value: Except 0	
	Except TC and word device: Contact	OFF	ON	
MC, STL	Contact	ON	OFF	
LDP, ANDP, ORP, LDF, ANDF, ORF (Rise or fall contact instruction)	Not monitored	Always ∎ not displayed		

16.2.18 Action for an incorrect key input

If an incorrect key is input, cancel the input contents.

■1. Operations

- (1) Before touching the GO key (before reading/writing the input contents) Before touching the GO key, touch the CLR key.
- (2) After touching the GO key (after reading/writing the input contents) Write the command again.

➡ 16.2.10 Writing commands

Commands finalized by writing and inserting operations are revised (overwritten) with the program writing.

16.2.19 Error messages and corrective actions

Error message	Description	Corrective action	
Can not display while protected.	The all-operation protect, anti- plagiarism, or incorrect write protect keyword is set.	 Check the protected operation. Clear the keyword protection or delete the keyword. 	
PLC parameter error.	An FX PLC parameter is defective.	 16.2.16 Keyword Set correct parameters in the FX PLC. 	
PLC communications error.	The communication with the FX PLC is defective.	 Check the FX PLC, cable, and GOT for abnormality. Check whether the communication settings are correct or not. 	
PLC is running.	A writing operation etc. has been made while the FX PLC is running.	Stop the FX PLC.	
Can not write.	The memory to write to is EPROM.The protect switch of the EEPROM is on.	 Set other than EPROM for the memory to write to. Switch off the protect switch of the EEPROM. 	
Step number is out of a range.	The specified step number exceeded the maximum number.	Specify a step number below the maximum value.	
Not found.	The specified command cannot be found.	Proceed to the next operation.	
Not found.	The specified device cannot be found.	Proceed to the next operation.	
Step overflow.	The program may exceed the available space. (Writing is not executed.)	Check the program memory space and delete commands to keep it within the space. • 16.2.12 Deleting commands	
Command error.	An invalid command (non-existent command) was specified.	Input the correct command.	
Protected by a block password.	The sequence program is protected by a block password at the PLC reading.	Release the block password for the sequence program.	

This section describes the error messages displayed when the MELSEC-FX list editor is executed, and corrective action.

POINT

How to erase an error message

An error message is not erased even if the cause of the error is eliminated. To erase an error message, touch a key on the MELSEC-FX list editor screen.

16.3 FX3U-ENET-ADP Communication Setting Function

In GX Works2, the communication set value of the FX3U-ENET-ADP stored in the CPU can be changed. This function is not available when the communication set value of the FX3U-ENET-ADP is not set in advance in the CPU.

POINT

(1) Communication setting in the CPU

In GX Works2, set in advance the communication set value of the FX3U-ENET-ADP to the CPU. For the details of the communication setting, refer to the following.

FX3U-ENET-ADP User's manual

- (2) Connection type for the FX3U-ENET-ADP communication setting function This function can be used only when the connection between the GOT and FXCPU is the direct CPU connection.
 - GOT2000 Series Connection Manual (Mitsubishi Product)

16.3.1 Specifications

■1. System configuration

This section describes the system configuration of the FX3U-ENET-ADP communication setting function. For the setting method in each connection form, used communication unit/cable and cautions on connection form, refer to the following manual.

GOT2000 Series Connection Manual

■2. Required basic system application

0	Version	
Basic system appl	-	
Communication driver	MELSEC-FX	-

■3. Connection type

(\bigcirc : Applicable, \triangle : Partly restricted, \times : Inapplicable)

	Function	Connection type between GOT and controller		
Name	Description	Direct CPU connection	GOT multidrop connection	
FX3U-ENET-ADP communication setting function	The communication set value of the FX3U-ENET- ADP stored in the CPU can be changed.	0	×	

■4. Communication setting items

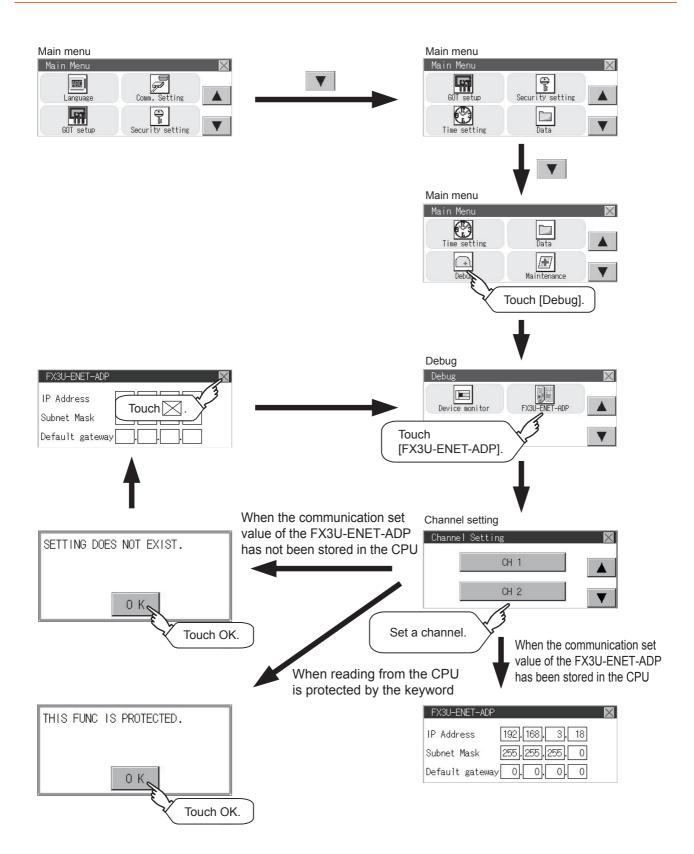
The table below shows the communication setting items and setting range.

Communication setting items	Setting range	Remark
IP address	0.0.0.1 to 223.255.255.254	
Subnet mask pattern*1	192.0.0.0 to 255.255.255.252	If a value outside the setting range is entered, the error message "SET NUMBER IS INCORRECT." appears.
Default router IP address ^{*1}	0.0.0.1 to 223.255.255.254	

*1 Set the value "0.0.0.0" when not using the subnet mask pattern and default router IP address.

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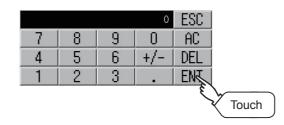
16.3.2 Display operation of FX3U-ENET-ADP communication setting function



Step 1. Touch the numerical part of the octet to be changed among the 1st to 4th octets.

FX3U-ENET-ADF	b	\times
IP Address	192.168. 3. 18	
Subnet Mask	255.255.255.0	
Default gatewa		umerical part
	of the octet	to be changed

Step 2. When the ten-key pad appears, enter a numerical value in up to 3 digits, and touch the Enter key.

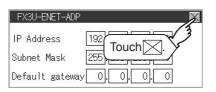


If a numerical value outside the setting range is entered, the following error message appears. Enter a numerical value again.

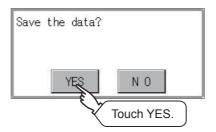
Set	number	is	incorrect.
			0 К

For the details of the setting range, refer to the following.

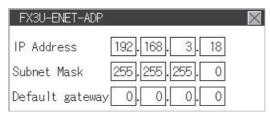
- 16.3.1 Specifications
- Step 3. The changed IP address is displayed. At this time, the changed communication set value of the FX3U-ENET-ADP is not written to the CPU. Touch the Key.



Step 4. When the screen shown below appears, touch the ESC key.



Step 5. When the screen shown below appears, the changed communication set value of the FX3U-ENET-ADP is written normally to the CPU.



For making valid the contents of setting, turn OFF the power of the CPU, and then turn it ON again. Change the setting of the subnet mask pattern and default router IP address using the same procedure if necessary. An error message appears in the following cases. Touch the OK key to return to the step 1, and perform the setting procedure again.

• When the CPU is running

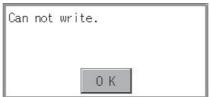
The following error message appears. Stop the running status of the CPU.

PLC	IS	RUNNING.
		0 К

• When a communication error occurs Set the communication between the GOT and the CPU to the normal status.



• When the memory cassette is write-protected Set to OFF the write-protect switch of the memory cassette.



• When writing to the CPU is protected by the keyword Clear the protection by the keyword against writing.



POINT

When the CPU stores the symbolic information

When the setting such as IP address is changed using this function and then the program is read by the programming tool from the CPU that stores the symbolic information, the following warning appears. However, the changed value is read correctly. Convert and compile the project again.





17. MAINTENANCE

17.1 Touch Panel Calibration

■1. Touch panel calibration setting function

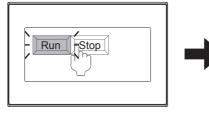
Touch panel reading error can be corrected.

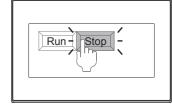
Normally the adjustment is not required, however, the difference between a touched position and the object position may occur as the period of use elapses.

When any difference between a touched position and the object position occurs, correct the position with this function.

Before adjustment

After adjustment

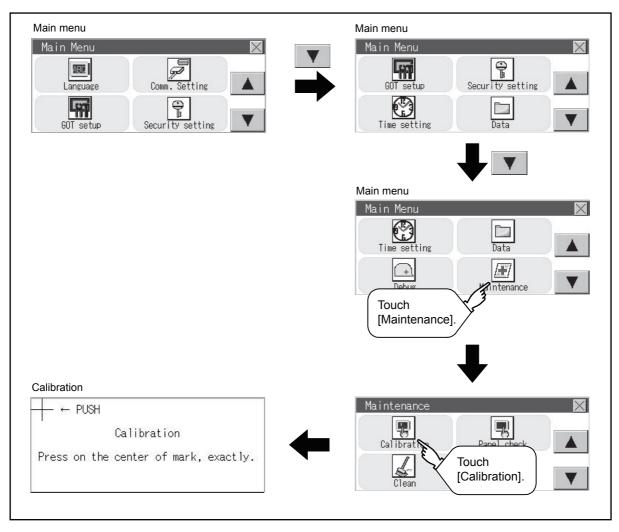




The [Run] will operate though you intended to touch the [Stop] button.

The [Stop] button can be touched without fail.

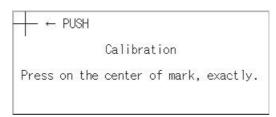
■2. Touch panel calibration setting display operation



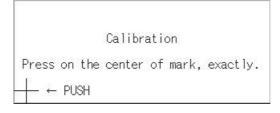
■3. Touch panel calibration operation

Touch [+] displayed on the screen with the finger one by one to make the setting.

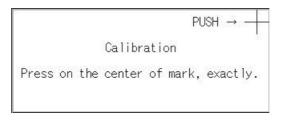
Step 1. Touch the center of [+] displayed on the upper left precisely.



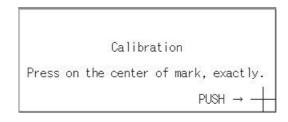
Step 2. Touch [+] displayed on the upper left.



Step 3. Touch [+] displayed on the upper right.



Step 4. Touch [+] displayed on the lower right.



Step 5. Step 4 completes the calibration process, and the [Maintenance] window will reappear.

POINT

Touch panel calibration error

If touch panel calibration results in inoperability of the panel, the following message will appear.

Setting Error. Retry?	
YES	ΝΟ

[YES] button: Returns to the touch panel calibration screen.

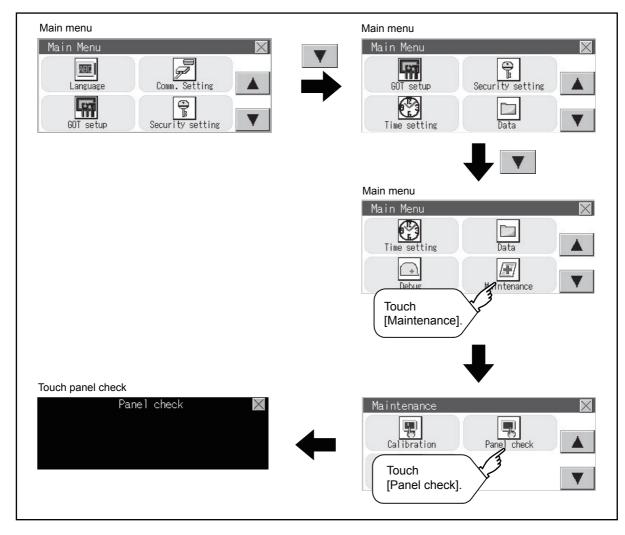
[NO] button: Aborts calibration without saving any changes to the touch panel setting.

17.2 Touch Panel Check

■1. Touch panel check function

Touch panel check function checks whether there is no dead zone area of 2 dots × 2 dots.

2. Display operation of Touch panel check



POINT

Notes on Touch panel check

If the touched part is not filled with white color, there are the following two possible causes.

- 1. Display part failure
- 2. Touch panel failure

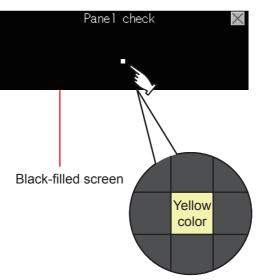
In that case, contact your local Mitsubishi (Electric System) Service.

■3. Touch panel check operations

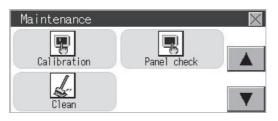
If touch [Panel check] of self-check, a black-filled screen is displayed over the entire screen area.

Step 1. Touch a part of the screen.

The touched part becomes a white-filled display. Up to 40 parts becomes yellow-filled displays.



Step 2. If is on the upper right is touched, the screen returns to the self-check.



POINT

Checking the upper right part of the screen

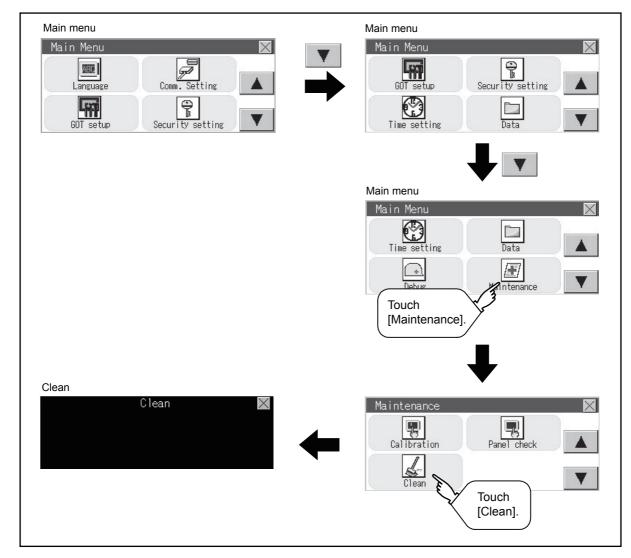
Only the upper right part of the screen cannot be filled with white.

If the screen returns to the maintenance by touching the upper right part, judge that the upper right area operates normally.

In utility, the screen can be set as not to be effected by touching the screen when clean with clothes. For cleaning method, refer to the following.

GOT2000 Series User's manual (Hardware) 9. MAINTENANCE AND INSPECTION

■1. Display operation of clean



■2. Display operation of clean

Step 1. Touching the key closes the screen. Even if touch points other than the upper left corner and upper right corner of the screen, the GOT does not operates.



For details of cleaning method, refer to the following.

GOT2000 Series User's manual (Hardware) 9. MAINTENANCE AND INSPECTION



BOOTOS AND SYSTEM APPLICATION INSTALLATION USING DATA STORAGE

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18. BOOTOS AND SYSTEM APPLICATION INSTALLATION USING DATA STORAGE

There are the following two types for the installation of BootOS and system applications using a data storage.

■1. Installing when starting the GOT

18.1 Installing when starting the GOT

All the system applications and project data stored in the data storage are transferred to the GOT when powering on the GOT. This installing method is effective in the following cases.

- The GOT utility cannot be displayed.
- The system application is not installed.

■2. Installing using the data control function (Utility)

18.1 Installing when starting the GOT

By operating the utility, select the system application or project data stored in the data storage and transfer them to the GOT.

POINT

Precautions on installing BootOS, system applications

(1) Installing both BootOS and system applications

After completing BootOS installation, install system applications. When installing BootOS, the built-in flash memory in the GOT is initialized and goes to the status at factory shipment. (All system applications and project data are erased.)

BootOS is installed in the GOT at factory shipment. It is not necessary to

install BootOS when not upgrading it.

(2) Installation cannot be interrupted.

Do not perform any of the following during a BootOS or system application installation. Failure to do so may result in installation failure, causing the GOT malfunction.

- · Powering off the GOT
- · Pressing the reset button of the GOT
- Removing the data storage
- If the installation failure and the GOT malfunction occur, take the following action.
- If BootOS installation failed:
- Please consult your local Mitsubishi (Electric System) Service center or representative. • If the basic system application installation failed:
 - ➡ 18.1 Installing when starting the GOT

18.1 Installing when starting the GOT

■1. When installing with an SD card

- *Step 1.* Power OFF the GOT, and install the SD card where the BootOS, system application or project data is stored in the SD card interface of the GOT.
- Step 2. Power on the GOT.
 While touching the lower right side of the GOT screen, power on the GOT. (1-point press installation function)
- *Step 3.* The BootOS or system application is installed in the built-in flash memory. Do not pull out the SD card or power OFF the GOT.

パッケージデータをインストール中です。 Now installing the package 正在安装软件包数据。	
Now installing the package	data.
正在安装软件包数据。	

Step 4. The GOT restarts automatically after the installation is completed.

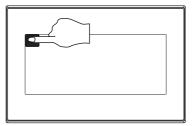
完了しました。 Finished. Now 安装已结束。再	再起動します。
Finished. Now	rebooting.
安装已结束。再	存启动GOT。

Step 5. After confirming normal restart, confirm that the SD card access LED is not lit, and remove the SD card from the SD card interface of the GOT.

18.2 Installing using the data copy function (Utility)

■1. Operation procedure

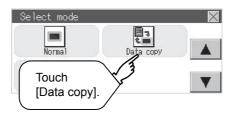
Step 1. Power OFF the GOT, and attach the SD card which stores the basic system application and communication driver to the GOT.



- Step 2. While touching the upper left corner of the GOT screen, power ON the GOT.
- Step 3. When the screen shown on the left appears, select the [Data copy].

For details of install, refer to the following.

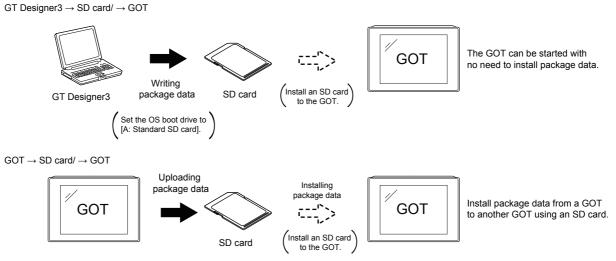
🗯 15.7 Data Copy



19. INSTALLATION OF BOOTOS AND BASIC SYSTEM APPLICATION

To execute the GOT utility, install the BootOS and system applications on the C drive (built-in flash memory) of the GOT, or set the boot drive of the package data to [A:SD card] and insert an SD card with the package data into the GOT. (BootOS is installed in the GOT at factory shipment. It is not necessary to install BootOS when upgrading of it is unnecessary.)

This chapter explains the installation using GOT.



Refer to the following for the installation which uses GT Designer3.

🗯 GT Designer3 (GOT2000) Help

19.1 BootOS and Basic System Application to be Installed

Under-mentioned BootOS and basic system application are necessary to execute utility.

System application name	Function overview		
Required for the control of GOT and the communication between PC and GOT. Installed at factory shipment. BootOS (BootOS can also be installed from GT Designer3. When BootOS is installed, the and goes to the status at factory shipment. When BootOS needs to be reinstalled application has to be installed in the GOT.)			
System application	Required for the GOT operation as the monitoring function of GOT, installation and deletion of the system application or project data, touch key control or display function of the screen and guidance. Required for display and operation of the user-created screen and utility screen. Not installed in GOT at factory shipment. Install it from GT Designer3 or an SD card.		

19

19.2 Prior Preparations for Installing BootOS and System Application

For the installation using GOT, the data storage that is storing BootOS or the system application is required. There are the following three methods for the installation of BootOS and system application.

■1. [To Memory Card] from GT Designer3

🗯 GT Designer3 (GOT2000) Help

2. Uploading from another GOT (the package data has been installed)

➡ 18. BOOTOS AND SYSTEM APPLICATION INSTALLATION USING DATA STORAGE

■3. Using an SD card that stores data with OS boot drive set to A drive

🗯 GT Designer3 (GOT2000) Help

POINT

Precautions when installing BootOS and the package data into an SD card

When installing BootOS and the package data into the SD card, be sure to execute by the utility of another GOT or GT Designer3.

The installation is not executed properly with the SD card to which data is uploaded from the utility of GOT or copied by software other than GT Designer3.

Note the available capacity of the SD card.

The available capacity of BootOS and system applications can be confirmed by [To Memory Card] or [Write Option] of GT Designer3.

	×	
Aemory Card Write SootOS Write		
Virte Data: Package Data Write Option Data Size: ROM: 5 KB RAM: 1 KB	Write Memory Card Information	—— Available space of the data
Memory Card Destination Memory Card: GOT Startup Method: Derectly from the memory card Instal Destination Drive: CBuilt-in Falsh Memory	Memory Card Witte	
Vrite Option	Close	
/rite Option		
Package Data Information Project TID: Project TID: Project TID: Package Folder Name: Package Folder Name: Package Folder Name: GOT TP Address Standard Ethernet:	Write Mode: ● Synchronize ● Select Data will be deleted from the GOT ft is not used in the package data. ■ IP Package1 [[GT Desgner3 Version1 105K] ● IP roject Data ● IP roject Data ● IP common Settings ■ IP Common Setting ■ IP Controler Setting [F Communication Set	

20. ERROR MESSAGE LIST

This chapter describes the error message and the corrective actions displayed on the GOT.

Error message	Action	
SCREEN DOES NOT EXIST.	 Specified base screen does not exist in the project data. Specified base screen is out of the permissible area. Specify the existing base screen. 	
SCREEN ERROR	The monitored device No. is out of the permissible area of the targeted PLC CPU. Set the device within the range that can be monitored by the monitored PLC CPU and parameter settings.	
COMM. ERROR	Error occurred while writing in the device. • Check the cable omission and the status of the PLC.	
DEVICE ERROR.	Error occurred while writing in the device. Correct the device.	
SET NUMBER IS INCORRECT.	The input value was illegal when writing to the device. Check the input value.	
PLC IS RUNNING.	The operation, which could not be performed during RUN of PLC CPU, was performed. Stop the PLC CPU.	
CAN NOT WRITE.	The memory cassette installed in the PLC CPU is EPROM or E2PROM, and it is in a protected status. Confirm the memory cassette installed in PLC CPU.	
THIS FUNC IS PROTECTED.	The key word is set in PLC CPU. Cancel the key word.	
CAN NOT USE THE FUNCTION.	 The function cannot be used with the package data configuration written in the GOT. Review the package data configuration. Install the latest version of GT Designer3 and write the package data again to the GOT. 	
DATA IS NOT FOUND.	The package data is not downloaded or the package data is not sufficient. Download the package data.	
PASSWORD IS INCORRECT.	The input password does not match the security level password or the utility start-up password. Check the target password.	
Password cannot be changed because you are not logged in.	When authenticating the operator, the password cannot be changed before logging in. Log in.	
The password does not match, the GOT cannot be booted.	The passwords for transmitting the data from package data on Drive C and package data directly started from memory card do not match, so the GOT cannot be started. Match the data transmission passwords.	

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REVISIONS

* The manual number is given on the bottom left of the back cover.

Print Date	* Manual Number	Revision
Sep. 2013	SH(NA)-081195ENG-A	First printing : GT Designer3 Version1.100E
Nov. 2013	SH(NA)-081195ENG-B	Compatible with GT Works3 Version1.104J • Description of SAFETY PRECAUTIONS changed • Abbreviations and generic terms changed • Compatible with wireless LAN connection (to be supported soon) • Ethernet setting revised
Jan. 2014	SH(NA)-081195ENG-C	Compatible with GT Works3 Version1.108N • Specifications for IP address duplication changed
Apr. 2014	SH(NA)-081195ENG-D	Compatible with GT Works3 Version1.112S • Description of SAFETY PRECAUTIONS changed • Abbreviations and generic terms changed • Utility function list changed • Functions added to the display setting • A function added to the operation log information • Error messages added
Jun. 2014	SH(NA)-081195ENG-E	Compatible with GT Works3 Version1.117X • Description of SAFETY PRECAUTIONS changed • R motion monitor supported • CNC monitor supported • CNC data I/O supported • CNC machining program edit supported • Recipe operation supported • Label name resolution information supported • Error messages added
Jul. 2014	SH(NA)-081195ENG-F	Compatible with GT Works3 Version1.118Y Abbreviations, generic terms, and icon indications changed Display method and list of the system alarm changed
Oct. 2014	SH(NA)-081195ENG-G	Compatible with GT Works3 Version1.122C • The description of SAFETY PRECAUTIONS has been changed. • The abbreviations, generic terms, icon indications have been changed. • GT21 is supported. • GT2512-S is supported. • GT2512-S supports the CNC monitor, CNC data I/O, and CNC machining program edit. • The IP filter is supported. • System alarms have been added.
Jan. 2015	SH(NA)-081195ENG-H	Compatible with GT Works3 Version1.126G • The description of SAFETY PRECAUTIONS has been changed. • The system launcher is supported. • The iQSS utility is supported. • The backup/restoration function has been expanded.
Apr. 2015	SH(NA)-081195ENG-I	Compatible with GT Works3 Version1.130L • The abbreviations, generic terms, icon indications have been changed. • Functions have been added to the operator authentication. • The sequence program monitor (R ladder) is supported. • The motion program editor is supported. • The motion program I/O is supported. • System alarms have been added.

Print Date	* Manual Number	Revision
Jun. 2015	SH(NA)-081195ENG-K	Compatible with GT Works3 Version1.134Q • The USB host setting has been changed. • The property screen for data management has been changed. • System alarms have been added.
Oct. 2015	SH(NA)-081195ENG-L	Compatible with GT Works3 Version1.144A • The abbreviations, generic terms, icon indications have been changed. • The access point mode has been added to the wireless LAN function. • The license management for the GOT Mobile function is supported. • System alarms have been added.
Dec. 2015	SH(NA)-081195ENG-M	Compatible with GT Works3 Version1.150G • The abbreviations, generic terms, icon indications have been changed. • GT2512F-S, GT2510F-V, and GT2508F-V are supported. • The GOT Mobile information is supported. • The file manager is supported.
May 2016	SH(NA)-081195ENG-N	 Compatible with GT Works3 Version1.155M The abbreviations, generic terms, icon indications have been changed. GT2105-Q, GT2104-PMBDS2, and GT2104-PMBLS are supported. The file menu screen of the multimedia function now displays information on the number of files. The CNC monitor 2 is supported. The drive recorder is supported. System alarms have been added.
Aug. 2016	SH(NA)-081195ENG-O	Compatible with GT Works3 Version1.160S • The abbreviations, generic terms, icon indications have been changed. • The ANDON connection is supported. • The GOT2000 series Ethernet communication unit (GT25-J71E71-100) is supported. • System alarms have been added.

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WARRANTY

Please check the following product warranty details before using this product.

Gratis Warranty Term and Gratis Warranty Range

If any faults or defects (hereinafter "Failure") found to be the responsibility of Mitsubishi occurs during use of the product within the gratis warranty term, the product shall be repaired at no cost via the sales representative or Mitsubishi Service Company. However, if repairs are required onsite at domestic or overseas location, expenses to send an engineer will be solely at the customer's discretion.

Mitsubishi shall not be held responsible for any re-commissioning, maintenance, or testing on-site that involves replacement of the failed module

(1) Gratis Warranty Term

The gratis warranty term of the product shall be for thirty-six (36) months after the date of purchase or delivery to a designated place.

Note that after manufacture and shipment from Mitsubishi, the maximum distribution period shall be six (6) months, and the longest The gratis warranty term of repair parts shall not exceed the gratis warranty term before repairs.

(2) Gratis Warranty Range

- The customer shall be responsible for the primary failure diagnosis unless otherwise specified.
 - If requested by the customer, Mitsubishi Electric Corporation or its representative firm may carry out the primary failure diagnosis at the customer's expense.
 - The primary failure diagnosis will, however, be free of charge should the cause of failure be attributable to Mitsubishi Electric Corporation.
- (b) The range shall be limited to normal use within the usage state, usage methods, and usage environment, etc., which follow the conditions and precautions, etc., given in the instruction manual, user's manual and caution labels on the product.
- (c) Even within the gratis warranty term, repairs shall be charged in the following cases.
 - · Failure occurring from inappropriate storage or handling, carelessness or negligence by the user. Failure caused by the user's hardware or software design.
 - · Failure caused by unapproved modifications, etc., to the product by the user.
 - When the Mitsubishi product is assembled into a user's device, Failure that could have been avoided if functions or structures, judged as necessary in the legal safety measures the user's device is subject to or as necessary by industry standards, had been provided.
 - · Failure that could have been avoided if consumable parts designated in the instruction manual had been correctly serviced or replaced.
 - Replacing consumable parts such as a battery, backlight, and fuse.
 - Failure caused by external irresistible forces such as fires or abnormal voltages, and Failure caused by force majeure such as earthquakes, lightning, wind and water damage.
 - Failure caused by reasons that could not be predicted by scientific technology standards at the time of shipment from Mitsubishi.
 - Any other failure found not to be the responsibility of Mitsubishi or that admitted not to be so by the user.

2. Onerous repair term after discontinuation of production

- Mitsubishi shall accept onerous product repairs for seven (7) years after production of the product is discontinued. (1)
- Discontinuation of production shall be notified with Mitsubishi Technical Bulletins, etc.
- (2) Mitsubishi shall not accept a request for product supply (including spare parts) after production is discontinued.

■ 3. Overseas service

Overseas, repairs shall be accepted by Mitsubishi's local overseas FA Center. Note that the repair conditions at each FA Center may differ.

■4. Exclusion of loss in opportunity and secondary loss from warranty liability

- Regardless of the gratis warranty term, Mitsubishi shall not be liable for compensation to:
- Damages caused by any cause found not to be the responsibility of Mitsubishi. (1)
- Loss in opportunity, lost profits incurred to the user by Failures of Mitsubishi products. (2)
- Special damages and secondary damages whether foreseeable or not, compensation for accidents, and compensation for (3) damages to products other than Mitsubishi products.
- (4) Replacement by the user, maintenance of on-site equipment, start-up test run and other tasks.

5. Changes in product specifications

The specifications given in the catalogs, manuals, or technical documents are subject to change without prior notice.

■6. Product application

In using the Mitsubishi graphic operation terminal, the usage conditions shall be that the application will not lead to a major accident (1) even if any problem or fault should occur in the graphic operation terminal device, and that backup and fail-safe functions are systematically provided outside of the device for any problem or fault.

The Mitsubishi graphic operation terminal has been designed and manufactured for applications in general industries, etc. (2)Thus, applications in which the public could be affected such as in nuclear power plants and other power plants operated by respective power companies, and applications in which a special quality assurance system is required, such as for Railway companies or Public service shall be excluded from the graphic operation terminal applications.

In addition, applications in which human life or property could be greatly affected, such as in aircraft, medical, railway applications, incineration and fuel devices, manned transportation equipment, recreation and amusement devices, safety devices, shall also be excluded from the graphic operation terminal.

Even for the above applications, however, Mitsubishi Electric Corporation may consider the possibility of an application, provided that the customer notifies Mitsubishi Electric Corporation of the intention, the application is clearly defined and any special quality is not required, after the user consults the local Mitsubishi representative.

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GOT2000 Series User's Manual (Utility)

MODEL GOT2000-U-UTILITY-E

1D7MJ6

SH(NA)-081195ENG-O(1608)MEE

MODEL CODE

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