

## Mitsubishi Programmable Controller

# MELSEC iQ-R

## MELSEC iQ-R High-Speed Counter Module User's Manual (Application)

-RD62P2 -RD62P2E -RD62D2

## SAFETY PRECAUTIONS

(Read these precautions before using this product.)

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

The precautions given in this manual are concerned with this product only. For the safety precautions of the programmable controller system, refer to the MELSEC iQ-R Module Configuration Manual.

In this manual, the safety precautions are classified into two levels: " / WARNING" and " / CAUTION".

Indicates that incorrect handling may cause hazardous conditions, resulting in death or severe injury.
Indicates that incorrect handling may cause hazardous conditions, resulting in minor or moderate injury or property damage.
<u>^</u>

Under some circumstances, failure to observe the precautions given under "<u>CAUTION</u>" may lead to serious consequences.

Observe the precautions of both levels because they are important for personal and system safety.

Make sure that the end users read this manual and then keep the manual in a safe place for future reference.

- Configure safety circuits external to the programmable controller to ensure that the entire system
  operates safely even when a fault occurs in the external power supply or the programmable controller.
  Failure to do so may result in an accident due to an incorrect output or malfunction.
  - (1) Emergency stop circuits, protection circuits, and protective interlock circuits for conflicting operations (such as forward/reverse rotations or upper/lower limit positioning) must be configured external to the programmable controller.
  - (2) When the programmable controller detects an abnormal condition, it stops the operation and all outputs are:
    - Turned off if the overcurrent or overvoltage protection of the power supply module is activated.
    - Held or turned off according to the parameter setting if the self-diagnostic function of the CPU module detects an error such as a watchdog timer error.
  - (3) All outputs may be turned on if an error occurs in a part, such as an I/O control part, where the CPU module cannot detect any error. To ensure safety operation in such a case, provide a safety mechanism or a fail-safe circuit external to the programmable controller. For a fail-safe circuit example, refer to "General Safety Requirements" in the MELSEC iQ-R Module Configuration Manual.
  - (4) Outputs may remain on or off due to a failure of a component such as a relay and transistor in an output circuit. Configure an external circuit for monitoring output signals that could cause a serious accident.
- In an output circuit, when a load current exceeding the rated current or an overcurrent caused by a load short-circuit flows for a long time, it may cause smoke and fire. To prevent this, configure an external safety circuit, such as a fuse.
- Configure a circuit so that the programmable controller is turned on first and then the external power supply. If the external power supply is turned on first, an accident may occur due to an incorrect output or malfunction.
- For the operating status of each station after a communication failure, refer to manuals relevant to the network. Incorrect output or malfunction due to a communication failure may result in an accident.
- When connecting an external device with a CPU module or intelligent function module to modify data of a running programmable controller, configure an interlock circuit in the program to ensure that the entire system will always operate safely. For other forms of control (such as program modification, parameter change, forced output, or operating status change) of a running programmable controller, read the relevant manuals carefully and ensure that the operation is safe before proceeding. Improper operation may damage machines or cause accidents.

## [Design Precautions]

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- Especially, when a remote programmable controller is controlled by an external device, immediate action cannot be taken if a problem occurs in the programmable controller due to a communication failure. To prevent this, configure an interlock circuit in the program, and determine corrective actions to be taken between the external device and CPU module in case of a communication failure.
- Do not write any data to the "system area" and "write-protect area" of the buffer memory in the module. Also, do not use any "use prohibited" signals as an output signal from the CPU module to each module. Doing so may cause malfunction of the programmable controller system. For the "system area", "write-protect area", and the "use prohibited" signals, refer to the user's manual for the module used.
- If a communication cable is disconnected, the network may be unstable, resulting in a communication failure of multiple stations. Configure an interlock circuit in the program to ensure that the entire system will always operate safely even if communications fail. Failure to do so may result in an accident due to an incorrect output or malfunction.
- To maintain the safety of the programmable controller system against unauthorized access from external devices via the network, take appropriate measures. To maintain the safety against unauthorized access via the Internet, take measures such as installing a firewall.
- Outputs may remain on or off due to a failure of a transistor for external output. Configure an external circuit for monitoring output signals that could cause a serious accident.

## [Design Precautions]

- During control of an inductive load such as a lamp, heater, or solenoid valve, a large current (approximately ten times greater than normal) may flow when the output is turned from off to on. Therefore, use a module that has a sufficient current rating.
- After the CPU module is powered on or is reset, the time taken to enter the RUN status varies depending on the system configuration, parameter settings, and/or program size. Design circuits so that the entire system will always operate safely, regardless of the time.
- Do not power off the programmable controller or reset the CPU module while the setting values in the buffer memory are being written. Doing so will make the data in the flash ROM undefined. The values need to be set in the buffer memory and written to the flash ROM again. Doing so also can cause malfunction or failure of the module.
- When changing the operating status of the CPU module from external devices (such as the remote RUN/STOP functions), select "Do Not OPEN in Program" for "Open Method Setting" in the module parameters. If "OPEN in Program" is selected, an execution of the remote STOP function causes the communication line to close. Consequently, the CPU module cannot reopen the line, and external devices cannot execute the remote RUN function.
- Do not install the control lines or communication cables together with the main circuit lines or power cables. Keep a distance of 150mm or more between them. Failure to do so may result in malfunction due to noise.

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• Shut off the external power supply (all phases) used in the system before mounting or removing the module. Failure to do so may result in electric shock or cause the module to fail or malfunction.

## [Installation Precautions]

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- Use the programmable controller in an environment that meets the general specifications in the Safety Guidelines included with the base unit. Failure to do so may result in electric shock, fire, malfunction, or damage to or deterioration of the product.
- To mount a module, place the concave part(s) located at the bottom onto the guide(s) of the base unit, and push in the module until the hook(s) located at the top snaps into place. Incorrect interconnection may cause malfunction, failure, or drop of the module.
- When using the programmable controller in an environment of frequent vibrations, fix the module with a screw.
- Tighten the screws within the specified torque range. Undertightening can cause drop of the screw, short circuit, or malfunction. Overtightening can damage the screw and/or module, resulting in drop, short circuit, or malfunction.
- When using an extension cable, connect it to the extension cable connector of the base unit securely. Check the connection for looseness. Poor contact may cause malfunction.
- When using an SD memory card, fully insert it into the SD memory card slot. Check that it is inserted completely. Poor contact may cause malfunction.
- Securely insert an extended SRAM cassette into the cassette connector of the CPU module. After insertion, close the cassette cover and check that the cassette is inserted completely. Poor contact may cause malfunction.
- Do not directly touch any conductive parts and electronic components of the module, SD memory card, extended SRAM cassette, or connector. Doing so can cause malfunction or failure of the module.

## [Wiring Precautions]

- Shut off the external power supply (all phases) used in the system before installation and wiring. Failure to do so may result in electric shock or cause the module to fail or malfunction.
- After installation and wiring, attach the included terminal cover to the module before turning it on for operation. Failure to do so may result in electric shock.

- Individually ground the FG and LG terminals of the programmable controller with a ground resistance of 100 ohms or less. Failure to do so may result in electric shock or malfunction.
- Use applicable solderless terminals and tighten them within the specified torque range. If any spade solderless terminal is used, it may be disconnected when the terminal screw comes loose, resulting in failure.
- Check the rated voltage and signal layout before wiring to the module, and connect the cables correctly. Connecting a power supply with a different voltage rating or incorrect wiring may cause fire or failure.
- Connectors for external devices must be crimped or pressed with the tool specified by the manufacturer, or must be correctly soldered. Incomplete connections may cause short circuit, fire, or malfunction.
- Securely connect the connector to the module. Poor contact may cause malfunction.
- Place the cables in a duct or clamp them. If not, dangling cable may swing or inadvertently be pulled, resulting in damage to the module or cables or malfunction due to poor contact. Do not clamp the extension cables with the jacket stripped.
- Check the interface type and correctly connect the cable. Incorrect wiring (connecting the cable to an incorrect interface) may cause failure of the module and external device.
- Tighten the terminal screws or connector screws within the specified torque range. Undertightening can cause drop of the screw, short circuit, fire, or malfunction. Overtightening can damage the screw and/or module, resulting in drop, short circuit, fire, or malfunction.
- When disconnecting the cable from the module, do not pull the cable by the cable part. For the cable with connector, hold the connector part of the cable. For the cable connected to the terminal block, loosen the terminal screw. Pulling the cable connected to the module may result in malfunction or damage to the module or cable.
- Prevent foreign matter such as dust or wire chips from entering the module. Such foreign matter can cause a fire, failure, or malfunction.
- A protective film is attached to the top of the module to prevent foreign matter, such as wire chips, from entering the module during wiring. Do not remove the film during wiring. Remove it for heat dissipation before system operation.
- Programmable controllers must be installed in control panels. Connect the main power supply to the power supply module in the control panel through a relay terminal block. Wiring and replacement of a power supply module must be performed by qualified maintenance personnel with knowledge of protection against electric shock. For wiring, refer to the MELSEC iQ-R Module Configuration Manual.
- For Ethernet cables to be used in the system, select the ones that meet the specifications in the user's manual for the module used. If not, normal data transmission is not guaranteed.
- Do not install the control lines or communication cables together with the main circuit lines or power cables. Keep a distance of 150mm or more between them. Failure to do so may result in malfunction due to noise.
- Ground the shield cable on the encoder side (relay box) with a ground resistance of 100 ohm or less. Failure to do so may cause malfunction.

## [Startup and Maintenance Precautions]

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- Do not touch any terminal while power is on. Doing so will cause electric shock or malfunction.
- Correctly connect the battery connector. Do not charge, disassemble, heat, short-circuit, solder, or throw the battery into the fire. Also, do not expose it to liquid or strong shock. Doing so will cause the battery to produce heat, explode, ignite, or leak, resulting in injury and fire.
- Shut off the external power supply (all phases) used in the system before cleaning the module or retightening the terminal screws, connector screws, or module fixing screws. Failure to do so may result in electric shock.

## [Startup and Maintenance Precautions]

- When connecting an external device with a CPU module or intelligent function module to modify data of a running programmable controller, configure an interlock circuit in the program to ensure that the entire system will always operate safely. For other forms of control (such as program modification, parameter change, forced output, or operating status change) of a running programmable controller, read the relevant manuals carefully and ensure that the operation is safe before proceeding. Improper operation may damage machines or cause accidents.
- Especially, when a remote programmable controller is controlled by an external device, immediate action cannot be taken if a problem occurs in the programmable controller due to a communication failure. To prevent this, configure an interlock circuit in the program, and determine corrective actions to be taken between the external device and CPU module in case of a communication failure.
- Do not disassemble or modify the modules. Doing so may cause failure, malfunction, injury, or a fire.
- Use any radio communication device such as a cellular phone or PHS (Personal Handy-phone System) more than 25cm away in all directions from the programmable controller. Failure to do so may cause malfunction.
- Shut off the external power supply (all phases) used in the system before mounting or removing the module. Failure to do so may cause the module to fail or malfunction.
- Tighten the screws within the specified torque range. Undertightening can cause drop of the component or wire, short circuit, or malfunction. Overtightening can damage the screw and/or module, resulting in drop, short circuit, or malfunction.
- After the first use of the product, do not mount/remove the module to/from the base unit, and the terminal block to/from the module, and do not insert/remove the extended SRAM cassette to/from the CPU module more than 50 times (IEC 61131-2 compliant) respectively. Exceeding the limit may cause malfunction.
- After the first use of the product, do not insert/remove the SD memory card to/from the CPU module more than 500 times. Exceeding the limit may cause malfunction.
- Do not touch the metal terminals on the back side of the SD memory card. Doing so may cause malfunction or failure of the module.
- Do not touch the integrated circuits on the circuit board of an extended SRAM cassette. Doing so may cause malfunction or failure of the module.
- Do not drop or apply shock to the battery to be installed in the module. Doing so may damage the battery, causing the battery fluid to leak inside the battery. If the battery is dropped or any shock is applied to it, dispose of it without using.

## [Startup and Maintenance Precautions]

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- Startup and maintenance of a control panel must be performed by qualified maintenance personnel with knowledge of protection against electric shock. Lock the control panel so that only qualified maintenance personnel can operate it.
- Before handling the module, touch a conducting object such as a grounded metal to discharge the static electricity from the human body. Failure to do so may cause the module to fail or malfunction.

## [Operating Precautions]

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- When changing data and operating status, and modifying program of the running programmable controller from an external device such as a personal computer connected to an intelligent function module, read relevant manuals carefully and ensure the safety before operation. Incorrect change or modification may cause system malfunction, damage to the machines, or accidents.
- Do not power off the programmable controller or reset the CPU module while the setting values in the buffer memory are being written to the flash ROM in the module. Doing so will make the data in the flash ROM undefined. The values need to be set in the buffer memory and written to the flash ROM again. Doing so can cause malfunction or failure of the module.

### [Disposal Precautions]

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- When disposing of this product, treat it as industrial waste.
- When disposing of batteries, separate them from other wastes according to the local regulations. For details on battery regulations in EU member states, refer to the MELSEC iQ-R Module Configuration Manual.

## [Transportation Precautions]

- When transporting lithium batteries, follow the transportation regulations. For details on the regulated models, refer to the MELSEC iQ-R Module Configuration Manual.
- The halogens (such as fluorine, chlorine, bromine, and iodine), which are contained in a fumigant used for disinfection and pest control of wood packaging materials, may cause failure of the product. Prevent the entry of fumigant residues into the product or consider other methods (such as heat treatment) instead of fumigation. The disinfection and pest control measures must be applied to unprocessed raw wood.

## **CONDITIONS OF USE FOR THE PRODUCT**

(1) Mitsubishi programmable controller ("the PRODUCT") shall be used in conditions;

i) where any problem, fault or failure occurring in the PRODUCT, if any, shall not lead to any major or serious accident; and

ii) where the backup and fail-safe function are systematically or automatically provided outside of the PRODUCT for the case of any problem, fault or failure occurring in the PRODUCT.

(2) The PRODUCT has been designed and manufactured for the purpose of being used in general industries. MITSUBISHI SHALL HAVE NO RESPONSIBILITY OR LIABILITY (INCLUDING, BUT NOT LIMITED TO ANY AND ALL RESPONSIBILITY OR LIABILITY BASED ON CONTRACT, WARRANTY, TORT, PRODUCT LIABILITY) FOR ANY INJURY OR DEATH TO PERSONS OR LOSS OR DAMAGE TO PROPERTY CAUSED BY the PRODUCT THAT ARE OPERATED OR USED IN APPLICATION NOT INTENDED OR EXCLUDED BY INSTRUCTIONS, PRECAUTIONS, OR WARNING CONTAINED IN MITSUBISHI'S USER, INSTRUCTION AND/OR SAFETY MANUALS, TECHNICAL BULLETINS AND GUIDELINES FOR the PRODUCT.

("Prohibited Application")

Prohibited Applications include, but not limited to, the use of the PRODUCT in;

- Nuclear Power Plants and any other power plants operated by Power companies, and/or any other cases in which the public could be affected if any problem or fault occurs in the PRODUCT.
- Railway companies or Public service purposes, and/or any other cases in which establishment of a special quality assurance system is required by the Purchaser or End User.
- Aircraft or Aerospace, Medical applications, Train equipment, transport equipment such as Elevator and Escalator, Incineration and Fuel devices, Vehicles, Manned transportation, Equipment for Recreation and Amusement, and Safety devices, handling of Nuclear or Hazardous Materials or Chemicals, Mining and Drilling, and/or other applications where there is a significant risk of injury to the public or property.

Notwithstanding the above, restrictions Mitsubishi may in its sole discretion, authorize use of the PRODUCT in one or more of the Prohibited Applications, provided that the usage of the PRODUCT is limited only for the specific applications agreed to by Mitsubishi and provided further that no special quality assurance or fail-safe, redundant or other safety features which exceed the general specifications of the PRODUCTs are required. For details, please contact the Mitsubishi representative in your region.

## INTRODUCTION

Thank you for purchasing the Mitsubishi MELSEC iQ-R series programmable controllers.

This manual describes the functions, parameter settings, and troubleshooting of the relevant products listed below. Before using this product, please read this manual and the relevant manuals carefully and develop familiarity with the functions and performance of the MELSEC iQ-R series programmable controller to handle the product correctly. When applying the program examples provided in this manual to an actual system, ensure the applicability and confirm that it will not cause system control problems.

Please make sure that the end users read this manual.

### **Relevant products**

RD62P2, RD62P2E, RD62D2

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## **RELEVANT MANUALS**

Manual name [manual number]	Description	Available form
MELSEC iQ-R High-Speed Counter Module User's Manual	Functions, parameter settings, troubleshooting, I/O	Print book
(Application) [SH-081241ENG] (this manual)	signals, and buffer memory of the high-speed counter module	e-Manual PDF
MELSEC iQ-R High-Speed Counter Module User's Manual	Performance specifications, procedures before	Print book
(Startup) [SH-081239ENG]	operation, wiring, and operation examples of the high- speed counter module	e-Manual PDF

### Point P

- 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.
- The hardware specifications of each part can be found from the product figures.
- Pages that users often browse can be bookmarked.

## TERMS

Unless otherwise specified, this manual uses the following terms.

Term	Description
GX Works3	The product name of the software package for the MELSEC programmable controllers
Engineering tool	Another term for GX Works3
Global label	A label that is valid for all the program data when multiple program data are created in the project. The global label has two types: a module specific label (module label), which is generated automatically by GX Works3, and an optional label, which can be created for any specified device.
High-speed counter module	The abbreviation for the MELSEC iQ-R series high-speed counter module
Buffer memory	A memory in an intelligent module for storing data (such as setting values and monitored values) to be transferred to the CPU module
Module label	A label that represents one of memory areas (I/O signals and buffer memory areas) specific to each module in a given character string. For the module used, GX Works3 automatically generates this label, which can be used as a global label.
Remote head module	The abbreviation for the RJ72GF15-T2 CC-Link IE Field Network remote head module

# **1** FUNCTIONS

This chapter describes the functions for the high-speed counter module and the setting methods. For details on I/O signals and buffer memory areas, refer to the following.

- 🖙 Page 55 Input signals
- Page 57 Output signals
- Page 62 Details of buffer memory addresses

### Point P

This chapter describes the I/O numbers (X/Y), buffer memory addresses, and external I/O terminals for CH1. To check the I/O numbers (X/Y) for CH2, refer to the following.

Page 54 List of I/O signals

To check the buffer memory addresses for CH2, refer to the following.

Page 60 List of buffer memory addresses

## **1.1** Pulse Input Modes and Counting Methods

This section describes the pulse input modes and the counting methods.

### Types of pulse input modes

The following six pulse input modes are prepared: 1-phase pulse input (1 multiple/2 multiples), CW/CCW pulse input, and 2-phase pulse input (1 multiple/2 multiples/4 multiples).

### Pulse input modes and count timing

Pulse input mode	Count timing		
1-phase multiple of 1	For counting up	φA φB and CH1 Down count command (Y3)	Counts on the rising edge (↑) of
	For counting down	¢A ¢B or CH1 Down count command (Y3)	Counts on the falling edge $(\downarrow)$ of $\phi A$ . $\phi B$ or CH1 Down count command (Y3) is on.
1-phase multiple of 2	For counting up	¢A ¢B and CH1 Down count command (Y3)	Counts on the rising edge ( $\uparrow$ ) and the falling edge ( $\downarrow$ ) of $\phi A$ . $\phi B$ and CH1 Down count command (Y3) are off.
	For counting down	¢A ¢B or CH1 Down count command (Y3)	Counts on the rising edge ( $\uparrow$ ) and the falling edge ( $\downarrow$ ) of $\phi A$ . $\phi B$ or CH1 Down count command (Y3) is on.
CW/CCW	For counting up	φΑ <b>↑</b> φΒ	Counts on the rising edge (1) of $\phi A$ . $\phi B$ is off.
	For counting down	фА фВ <b></b>	$\phi A$ is off. Counts on the rising edge $(\uparrow)$ of $\phi B.$

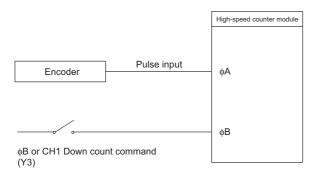
Pulse input mode	Count timing		
2-phase multiple of 1	For counting up	¢A	Counts on the rising edge (^) of $\phi A$ while $\phi B$ is off.
		φB	
	For counting down	φΑ <b>Α</b>	Counts on the falling edge ( $\downarrow$ ) of $\phi A$ while $\phi B$ is off.
		φB	
2-phase multiple of 2	For counting up		Counts on the rising edge $(\uparrow)$ of $\phi A$ while $\phi B$ is off. Counts on the falling edge $(\downarrow)$ of $\phi A$ while $\phi B$ is on.
		φΒ	
	For counting down		Counts on the rising edge ( $\uparrow$ ) of $\phi A$ while $\phi B$ is on. Counts on the falling edge ( $\downarrow$ ) of $\phi A$ while $\phi B$ is off.
		фВ	
2-phase multiple of 4	For counting up		Counts on the rising edge ( $\uparrow$ ) of $\phi$ A while $\phi$ B is off. Counts on the falling edge ( $\downarrow$ ) of $\phi$ A while $\phi$ B is on. Counts on the rising edge ( $\uparrow$ ) of $\phi$ B while $\phi$ A is on.
		φB↓↓↓	Counts on the falling edge (1) of $\phi B$ while $\phi A$ is off.
	For counting down		Counts on the rising edge ( $\uparrow$ ) of $\phi$ A while $\phi$ B is on. Counts on the falling edge ( $\downarrow$ ) of $\phi$ A while $\phi$ B is off.
		φВ <b></b>	Counts on the rising edge $(\uparrow)$ of $\phi B$ while $\phi A$ is off. Counts on the falling edge $(\downarrow)$ of $\phi B$ while $\phi A$ is on.

Point P

For the 1-phase pulse input and counting up pulses, check that the B phase pulse input and CH1 Down count command (Y3) are off before performing the A phase pulse input. If at least one of the B phase pulse input and CH1 Down count command (Y3) is on, pulses are counted down in the A phase pulse input.

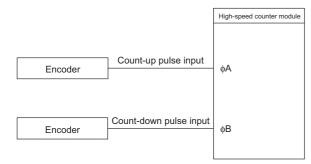
### ■1-phase pulse input

The count method can be selected from 1 multiple and 2 multiples. The following figure shows the relationship between the A phase pulse input and B phase pulse input or CH1 Down count command (Y3).



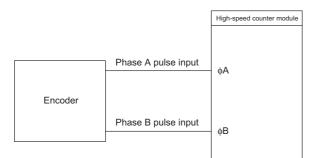
#### ■CW/CCW pulse input

Pulses can be counted up with the A phase pulse input and counted down with the B phase pulse input. The following figure shows the relationship between the A phase pulse input and B phase pulse input.



#### ■2-phase pulse input

The count method can be selected from 1 multiple, 2 multiples, and 4 multiples. The phase difference between the A phase pulse and B phase pulse determines whether the pulses are counted up or down. The following figure shows the relationship between the A phase pulse input and B phase pulse input.



### Setting a counting method

Set a counting method in "Basic setting" For details on the setting method, refer to the following.

### Reading the present value

This section describes the details on the present value stored in the buffer memory and the count values selected from the counter function selection, and their reading method.

### When the refresh setting is used

By configuring the refresh setting, writing and reading data can be performed without creating a communication program for the high-speed counter module. For details on the setting method, refer to the following.

Page 43 Refresh Setting

### When the refresh setting is not used

#### Storage location of the count value

The present value is always stored in CH1 Present value (Un\G2 to Un\G3) regardless of the counter function used. When the latch counter function, sampling counter function, or cycle pulse counter function is performed, the counter function selection count value is stored in the corresponding buffer memory addresses listed in the following table besides CH1 Present value (Un\G2 to Un\G3).

Description	Present value	Counter function selection count value				
		Latch count value	Sampling count value	Cycle pulse count previous value	Cycle pulse count current value	Cycle pulse count difference value
Buffer memory address	Un\G2 to Un\G3	Un\G12 to Un\G13	Un\G14 to Un\G15	Un\G16 to Un\G17	Un\G18 to Un\G19	Un\G24 to Un\G27

### ■Stored data

The present value and the counter function selection count values are stored in the buffer memory in 32-bit signed binary. However, only the cycle pulse count difference value is stored in the buffer memory in 64-bit signed binary. The values in the buffer memory are automatically updated depending on the count operation.

## **1.2** Selecting a Counter Type

Select a counter type in "Counter type" of "Basic setting".

#### Setting method

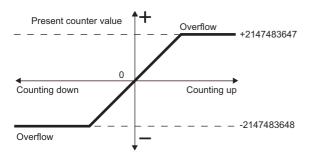
- 1. Set "Counter operation mode" to "Pulse count mode".
- 2. Set "Counter type" to "Linear counter" or "Ring counter".
- Navigation window ⇒ [Parameter] ⇒ [Module Information] ⇒ Module model name ⇒ [Module Parameter] ⇒ [Basic setting]

Item	Description	Reference
Linear counter	This function counts pulses between -2147483648 (lower limit value) and 2147483647 (upper limit value). If a count exceeds the range, the overflow is detected.	Page 17 Linear counter function
Ring counter	This function counts pulses repeatedly between the values stored in CH1 Ring counter lower limit value setting (Un\G20 to Un\G21) and CH1 Ring counter upper limit value setting (Un\G22 to Un\G23).	Page 18 Ring counter function

### Linear counter function

### Operation of the linear counter

- This function counts pulses between -2147483648 (lower limit value) and 2147483647 (upper limit value).
- · The preset function and coincidence output function can be used with this function.



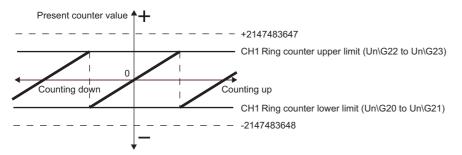
### Overflow error

- When the counter type is the linear counter, an overflow error occurs if the value in CH1 Present value (Un\G2 to Un\G3) falls below -2147483648 (lower limit value) at the subtraction or exceeds 2147483647 (upper limit value) at the addition.
- If an overflow error occurs, 1 is stored in CH1 Overflow detection (Un\G8) and the counting operation stops. The present value does not change from -2147483648 or 2147483647 even if pulses are input.
- The overflow error can be cleared by performing the preset function.
- When the preset function is performed, 0 is stored in CH1 Overflow detection (Un\G8) and the counting operation restarts.

### **Ring counter function**

### Operation of the ring counter

This function repeatedly counts pulses between the values stored in CH1 Ring counter lower limit value setting (Un\G20 to Un\G21) and CH1 Ring counter upper limit value setting (Un\G22 to Un\G23). When the ring counter function is selected, an overflow error does not occur. The preset function and coincidence output function can be used with this function.



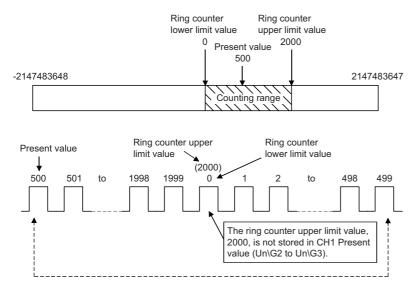
### Count range of the ring counter

The count range is determined by the relationship between the ring counter lower limit value or ring counter upper limit value and the value in CH1 Present value (Un\G2 to Un\G3) when CH1 Count enable command (Y4) is turned on or when the preset function is performed. Normally, the count range is Ring counter lower limit value  $\leq$  Present value  $\leq$  Ring counter upper limit value.

## ■When the count range is Ring counter lower limit value ≤ Present value ≤ Ring counter upper limit value (normally used)

- When pulses are counted up, the ring counter lower limit value is automatically stored in CH1 Present value (Un\G2 to Un\G3) when the present value reaches the ring counter upper limit value.
- When pulses are counted down, even when the present value reaches the ring counter lower limit value, the ring counter lower limit value is held as the lower limit, and the value of Ring counter upper limit value 1 is stored in CH1 Present value (Un\G2 to Un\G3) at the next count-down pulse input.

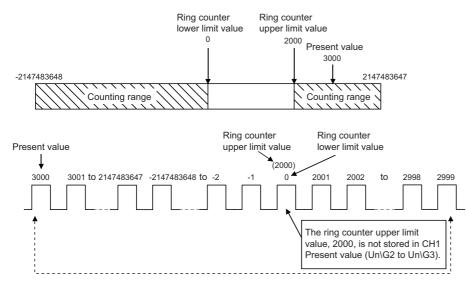
Both when pulses are counted up and when pulses are counted down, the ring counter upper limit value is not stored in CH1 Present value (Un\G2 to Un\G3). For example, when the count enable command is valid while the ring counter lower limit value is 0, the ring counter upper limit value is 2000, and the present value is 500, the count range and the present value will change as follows.



### When the count range is Present value < Ring counter lower limit value or Ring counter upper limit value < Present value</p>

- When pulses are counted up, even when the present value reaches the ring counter lower limit value, the ring counter lower limit value is held as the lower limit, and the value of Ring counter upper limit value + 1 is stored in CH1 Present value (Un\G2 to Un\G3) at the next count-up pulse input.
- When pulses are counted down, the ring counter lower limit value is automatically stored in CH1 Present value (Un\G2 to Un\G3) when the present value reaches the ring counter upper limit value.

Both when pulses are counted up and when pulses are counted down, the ring counter upper limit value is not stored in CH1 Present value (Un\G2 to Un\G3). For example, when the count enable command is valid while the ring counter lower limit value is 0, the ring counter upper limit value is 2000, and the present value is 3000, the count range and the present value will change as follows.



#### When the count range is Ring counter lower limit value = Ring counter upper limit value

When this condition is established, a value that can be expressed in 32-bit signed binary (-2147483648 to 2147483647) will be the count range, regardless or the present value.

- While CH1 Count enable command (Y4) is on, even if CH1 Ring counter lower limit value setting (Un\G20 to Un\G21) and CH1 Ring counter upper limit value setting (Un\G22 to Un\G23) are changed, the high-speed counter module does not operate with the changed value. Turn off CH1 Count enable command (Y4) before changing the ring counter upper limit value or ring counter lower limit value.
  - Turn off CH1 Count enable command (Y4) before changing the count range using the preset function.

Point

## **1.3** Coincidence Output Function

This function compares the present count value with the preset count value, and outputs a signal when they match.

### Setting method

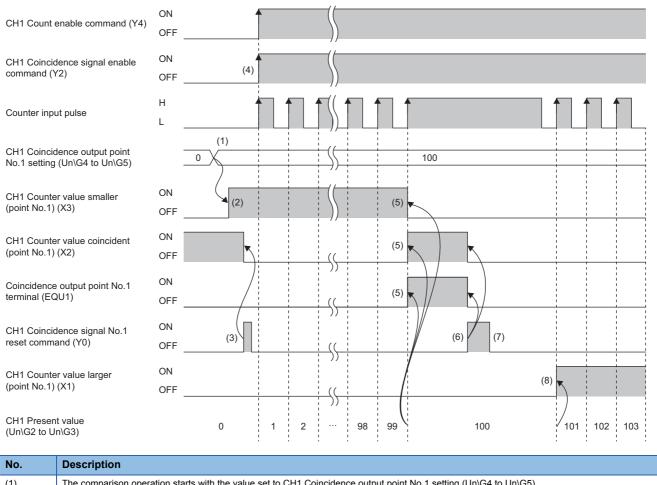
- 1. Set "Counter operation mode" to "Pulse count mode".
- 2. Set a count value for "Coincidence output point No.1 setting" or "Coincidence output point No.2 setting".
- Navigation window ⇒ [Parameter] ⇒ [Module Information] ⇒ Module model name ⇒ [Module Parameter] ⇒ [Basic setting]

Item	Setting range
Coincidence output point No.1	-2147483648 to 2147483647
Coincidence output point No.2	

Up to two coincidence outputs can be set for each channel.

When the external output of the coincidence signal is used, turn on CH1 Coincidence signal enable command (Y2) beforehand.

### Operation of the coincidence output



No.	Description
(1)	The comparison operation starts with the value set to CH1 Coincidence output point No.1 setting (Un\G4 to Un\G5).
(2)	When CH1 Present value (Un\G2 to Un\G3) becomes less than CH1 Coincidence output point No.1 setting (Un\G4 to Un\G5), CH1 Counter value smaller (point No.1) (X3) turns on.
(3)	When CH1 Coincidence signal No.1 reset command (Y0) is turned on, CH1 Counter value coincident (point No.1) (X2) and the coincidence output point No.1 terminal (EQU1) turns off.
(4)	If a coincidence output from the coincidence output point No.1 terminal (EQU1) is required, turn on CH1 Coincidence signal enable command (Y2).

No.	Description
(5)	When CH1 Present value (Un\G2 to Un\G3) equals to CH1 Coincidence output point No.1 setting (Un\G4 to Un\G5), CH1 Counter value coincident (point No.1) (X2) and the coincidence output point No.1 terminal (EQU1) turn on. Also, CH1 Counter value smaller (point No.1) (X3) turns off.
(6)	When CH1 Coincidence signal No.1 reset command (Y0) is turned on while the values match, CH1 Counter value coincident (point No.1) (X2) and the coincidence output point No.1 terminal (EQU1) turn off.
(7)	Even though CH1 Coincidence signal No.1 reset command (Y0) is turned off while the values match, CH1 Counter value coincident (point No.1) (X2) and the coincidence output point No.1 terminal (EQU1) do not turn on.
(8)	When CH1 Present value (Un\G2 to Un\G3) becomes greater than CH1 Coincidence output point No.1 setting (Un\G4 to Un\G5), CH1 Counter value larger (point No.1) (X1) turns on.

### Precautions for using the coincidence output function

When CH1 Coincidence signal enable command (Y2) is turned on before the count is started or while the coincidence output point setting value and the current value match, the coincidence output is performed. To avoid this status, perform one of the following operations before turning on CH1 Coincidence signal enable command (Y2).

#### Setting different values to the coincidence output point setting value and the current value

Set different values to the coincidence output point setting value and the current value by one of the following methods.

- · Changing the coincidence output point setting value
- · Changing the current value using the preset function
- Changing the current value by inputting a pulse

#### Turning off the counter value coincidence signal

Turn on and off CH1 Coincidence signal No.1 reset command (Y0).

### Point P

- Since CH1 Present value (Un\G2 to Un\G3) and CH1 Coincidence output point No.1 (Un\G4 to Un\G5) are 0 after the CPU module is powered on or is reset, CH1 Counter value coincident (point No.1) (X2) turns on.
- When CH1 Coincidence signal enable command (Y2) is turned on while CH1 Counter value coincident (point No.1) (X2) is on, the coincidence output is performed to outside the module. To avoid an incorrect coincidence output, turn on and off CH1 Coincidence signal No.1 reset command (Y0) before turning on CH1 Coincidence signal enable command (Y2), and turn off CH1 Counter value coincident (point No.1) (X2).

### Precautions for mounting a remote head module

When a high-speed counter module has been mounted with a remote head module, whether to hold or clear the Y signal at a disconnection of own station can be set with "CPU error output mode setting" in the module parameter. According to this setting, whether to continue counting and operate the coincidence output, or to stop counting and not to operate the coincidence output can be specified.

Setting methods when the parameter is set with "CPU error output mode setting" are described as follows.

- Enable the station-based block data assurance for cyclic data in the sending side.
- To hold the PWM output at a disconnection, select "Hold" for "CPU error output mode setting" in the module parameter.
- To stop the PWM output at a disconnection, select "Clear" for "CPU error output mode setting" in the module parameter.

This setting is valid in module units. The parameter cannot be set in each channel.

### **Coincidence detection interrupt function**

This function outputs an interrupt request to the CPU module and starts an interrupt program when the present counter value matches with the preset coincidence output point setting value.

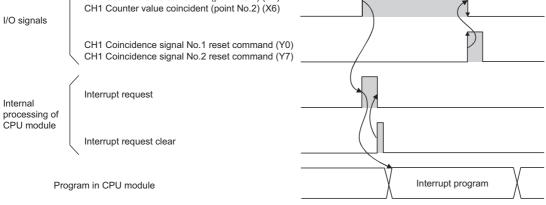
For details on the interrupt program, refer to the following.

MELSEC iQ-R CPU Module User's Manual (Application)

#### Interrupt factor

The high-speed counter module has interrupt factors of 4 points for each coincidence output point.

Interrupt factor	
Turning on CH1 Counter value coincident (point No.1) (X2)	
Turning on CH1 Counter value coincident (point No.2) (X6)	
Turning on CH2 Counter value coincident (point No.1) (X9)	
Turning on CH2 Counter value coincident (point No.2) (XD)	
Interrupt program execution timing CH1 Counter value coincident (point No.1) (X2) CH1 Counter value coincident (point No.2) (X6)	



### Setting interrupt pointers

Set interrupt pointers in the parameter settings. For details on the setting method, refer to the following.



• A coincidence detection interrupt occurs on the rising edge of the counter value coincidence signal (When the signal is turned off and on). Therefore, the next interrupt will not be requested unless the coincidence signal is reset and the counter value coincidence signal is turned off.

## **1.4** Preset Function

This function overwrites the present counter value with the set numerical value. The set value is referred to as a preset value. This function can be used to start counting pulses from the preset value. The function can be performed using a program or an external control signal.

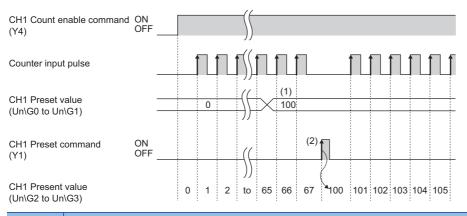
### Setting method

- 1. Set "Counter operation mode" to "Pulse count mode".
- 2. Set a preset value to "Preset value setting".
- Navigation window ⇒ [Parameter] ⇒ [Module Information] ⇒ Module model name ⇒ [Module Parameter] ⇒ [Basic setting]

Item	Setting range
Preset value setting	-2147483648 to 2147483647

### Performing the preset function using a program

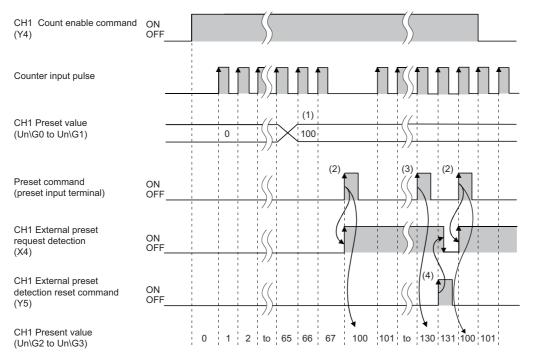
Perform the preset function by turning on CH1 Preset command (Y1) using a program.



No.	Description
(1)	Write a value into CH1 Preset value setting (Un\G0 to Un\G1) in 32-bit signed binary.
(2)	On the rising edge (off and on) of CH1 Preset command (Y1), the value in CH1 Present value (Un\G2 to Un\G3) is replaced with the value in CH1
	Preset value setting (Un\G0 to Un\G1).
	The preset function can be performed regardless of the on/off status of CH1 Count enable command (Y4).

### Performing the preset function using an external control signal

Perform the preset function by applying an ON voltage to the preset input terminal for external input.



No.	Description
(1)	Write a value into CH1 Preset value setting (Un\G0 to Un\G1) in 32-bit signed binary.
(2)	On the rising edge (off and on) of the preset command (A voltage is applied to the preset input terminal), the value in CH1 Present value (Un\G2 to Un\G3) is replaced with the value in CH1 Preset value setting (Un\G0 to Un\G1). The preset function can be performed regardless of the on/off status of CH1 Count enable command (Y4).
(3)	Even though a voltage is applied to the preset input terminal while CH1 External preset request detection (X4) is on, the value in CH1 Present value (Un\G2 to Un\G3) is not replaced with the preset value.
(4)	CH1 External preset request detection (X4) is turned off by turning on CH1 External preset detection reset command (Y5).

## **1.5** Counter Function Selection

The count disable function, latch counter function, sampling counter function, or cycle pulse counter function can be used by selecting each item in the counter function selection setting of the "Counter function selection setting". The selected counter function is performed by the counter function selection start command (when CH1 Counter function selection start command (Y6) is turned on using a program or a voltage is applied to the function start input terminal). Only one of the four counter functions can be selected from the counter function selection.

### Setting method

1. Set "Counter operation mode" to "Pulse count mode".

2. Set the function to be used in "Counter function selection setting".

Navigation window ⇒ [Parameter] ⇒ [Module Information] ⇒ Module model name ⇒ [Module Parameter] ⇒ [Application setting]

Item	Description	Reference
Count disable function	This function stops counting pulses while CH1 Count enable command (Y4) is on.	Page 28 Count disable function
Latch counter function	This function latches the present counter value when Counter function selection start command is input.	Page 29 Latch counter function
Sampling counter function	This function counts pulses input during the specified sampling time (T) and stores the count value in the buffer memory.	Page 30 Sampling counter function
Cycle pulse counter function	This function stores the current value, previous value, and difference value of the counter in the buffer memory at every specified cycle time (T).	Page 31 Cycle pulse counter function

Point *P* 

• Change the counter function while CH1 Counter function selection start command (Y6) is off.

• The selected counter function can be performed by turning on CH1 Counter function selection start command (Y6) or applying a voltage to the function start input terminal. A signal that is input first takes priority.

### **Count error**

A count error may occur when the selected counter function is performed using an external input (A voltage is applied to the function start input terminal) or using a program (CH1 Counter function selection start command (Y6) is turned on). The following describes how to calculate the count error.

### Count error (max.) when an external input is used

Due to a delay in the input response time of the function start input terminal, the following error occurs.

Count error (maximum)	$= \frac{A}{1000} [s] \times B$
А	Function input response time setting [ms] (1ms maximum)
В	Pulse input speed [pps] (= Pulse input frequency [Hz] $\times$ Multiplication [count])

### Count error (max.) when a program is used

Due to a delay in the scan time of the program (Delay of turning on CH1 Counter function selection start command (Y6)), the following error occurs.

Count error (maximum)	$= \frac{A}{1000} [s] \times B$
А	1 scan time [ms]
В	Pulse input speed [pps] (= Pulse input frequency [Hz] $\times$ Multiplication [count])

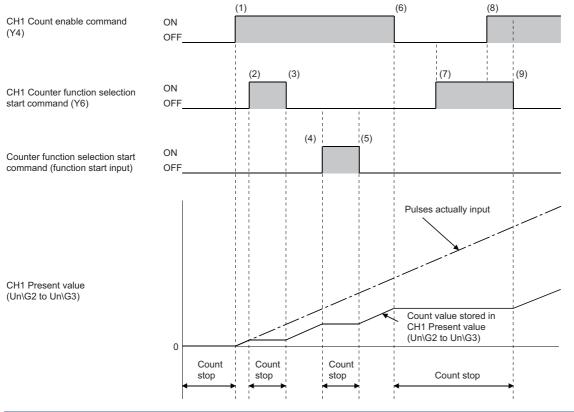
### Count error (max.) on the sampling counter function or cycle pulse counter function

A sampling/cycle time error occurs due to an error in design ( $\pm$ 100ppm) when the sampling counter function or cycle pulse counter function is performed. The count error is calculated as follows:

Count error (maximum)	$= \frac{A}{1000} [s] \times \frac{B}{1000000} \times C$
А	Sampling/cycle time [ms]
В	100 [ppm]
С	Pulse input speed [pps] (= Pulse input frequency [Hz] $\times$ Multiplication [count])

## **Count disable function**

This function stops counting pulses while CH1 Count enable command (Y4) is on. The following figure shows the relationship among CH1 Count enable command (Y4), Counter function selection start command, and the present counter value.

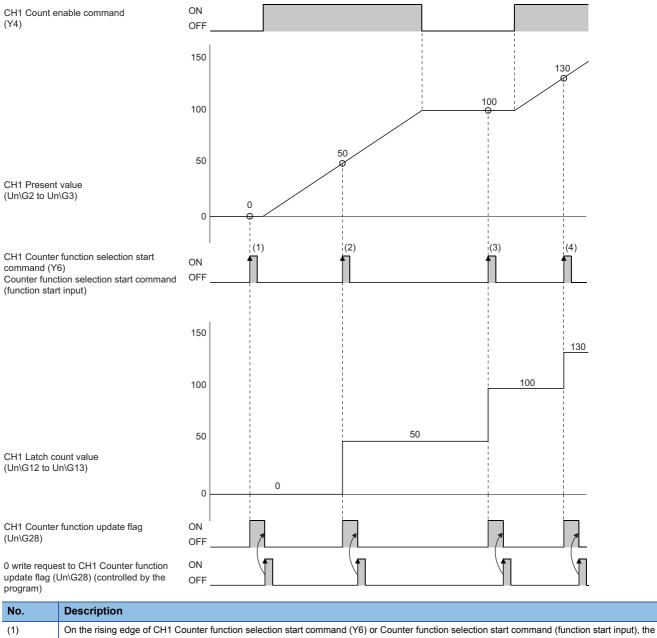


No.	Description
(1)	The count operation starts when CH1 Count enable command (Y4) is turned on.
(2)	The count operation stops when CH1 Counter function selection start command (Y6) is turned on.
(3)	The count operation restarts when CH1 Counter function selection start command (Y6) is turned off.
(4)	The count operation stops when Counter function selection start command (function start input) is turned on.
(5)	The count operation restarts when Counter function selection start command (function start input) is turned off.
(6)	The count operation stops when CH1 Count enable command (Y4) is turned off.
(7)	The count operation stops regardless of the on/off status of CH1 Counter function selection start command (Y6) because CH1 Count enable command (Y4) is off.
(8)	Even though CH1 Count enable command (Y4) is turned on, the count operation remains stopped because CH1 Counter function selection start command (Y6) is on.
(9)	The count operation restarts when CH1 Counter function selection start command (Y6) is turned off.

### Latch counter function

This function latches the present counter value when Counter function selection start command is input. The following figure shows the relationship among the present counter value, Counter function selection start command, and CH1 Latch count value (Un\G12 to Un\G13).

The latch counter function can be performed regardless of the on/off status of CH1 Count enable command (Y4).

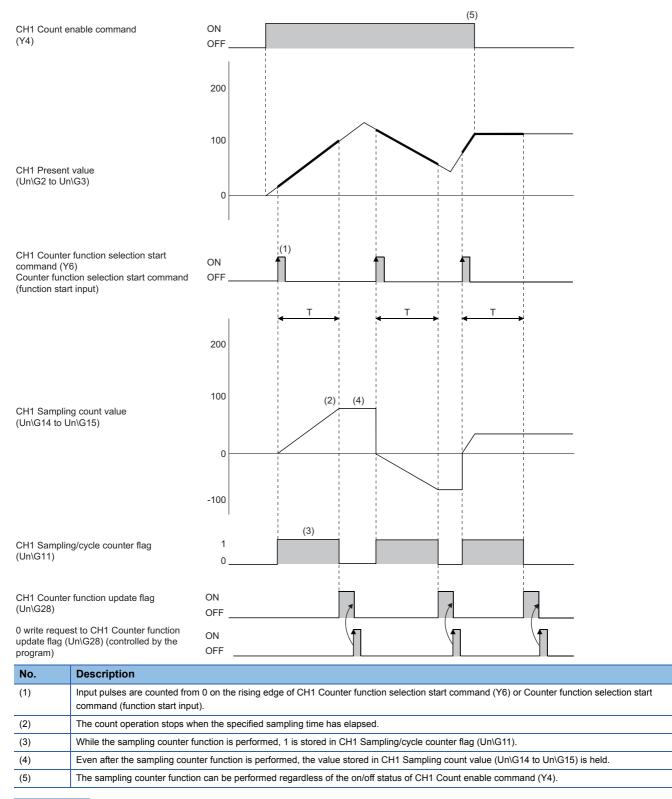


( )	present counter value, 0 is stored in CH1 Latch count value (Un\G12 to Un\G13).
(2)	On the rising edge of CH1 Counter function selection start command (Y6) or Counter function selection start command (function start input), the present counter value, 50 is stored in CH1 Latch count value (Un\G12 to Un\G13).
(3)	On the rising edge of CH1 Counter function selection start command (Y6) or Counter function selection start command (function start input), the present counter value, 100 is stored in CH1 Latch count value (Un\G12 to Un\G13).

(4) On the rising edge of CH1 Counter function selection start command (Y6) or Counter function selection start command (function start input), the present counter value, 130 is stored in CH1 Latch count value (Un\G12 to Un\G13).

### Sampling counter function

This function counts pulses input during the specified sampling time (T) and stores the count value in the buffer memory. The following figure shows the relationship among the signals and buffer memory areas used by the sampling counter function.



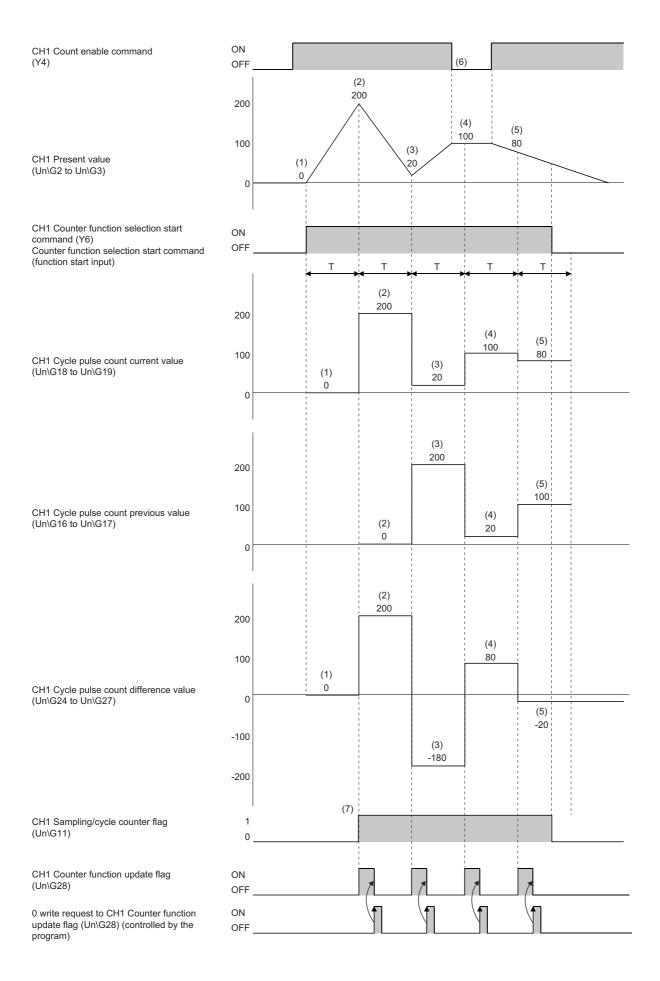
Point P

Set the sampling time by writing the data within the range of 1 to 65535 to CH1 Sampling/cycle time setting (Un\G10). The unit of time differs depending on the counting speed setting in CH1 Sampling/cycle time setting (Un\G10). For details, refer to the following.

Page 63 CH1 Sampling/cycle time setting

## Cycle pulse counter function

This function stores the current value, previous value, and difference value of the counter in the buffer memory at every specified cycle time (T). The following figure shows the relationship among the signals and buffer memory areas used by the cycle pulse counter function.



No.	Description
(1)	The present counter value, 0 is stored in CH1 Cycle pulse count current value (Un\G18 to Un\G19). The difference value with the previous value, 0 is stored in CH1 Cycle pulse count difference value (Un\G24 to Un\G27).
(2)	The present counter value, 200 is stored in CH1 Cycle pulse count current value (Un\G18 to Un\G19). The value 0, which has been stored in CH1 Cycle pulse count current value (Un\G18 to Un\G19), is stored in CH1 Cycle pulse count previous value (Un\G16 to Un\G17). The difference value with the previous value, 200 is stored in CH1 Cycle pulse count difference value (Un\G24 to Un\G27).
(3)	The present counter value, 20 is stored in CH1 Cycle pulse count current value (Un\G18 to Un\G19). The value 200, which has been stored in CH1 Cycle pulse count current value (Un\G18 to Un\G19), is stored in CH1 Cycle pulse count previous value (Un\G16 to Un\G17). The difference value with the previous value, -180 is stored in CH1 Cycle pulse count difference value (Un\G24 to Un\G27).
(4)	The present counter value, 100 is stored in CH1 Cycle pulse count current value (Un\G18 to Un\G19). The value 20, which has been stored in CH1 Cycle pulse count current value (Un\G18 to Un\G19), is stored in CH1 Cycle pulse count previous value (Un\G16 to Un\G17). The difference value with the previous value, 80 is stored in CH1 Cycle pulse count difference value (Un\G24 to Un\G27).
(5)	The present counter value, 80 is stored in CH1 Cycle pulse count current value (Un\G18 to Un\G19). The value 100, which has been stored in CH1 Cycle pulse count current value (Un\G18 to Un\G19), is stored in CH1 Cycle pulse count previous value (Un\G16 to Un\G17). The difference value with the previous value, -20 is stored in CH1 Cycle pulse count difference value (Un\G24 to Un\G27).
(6)	The cycle pulse counter function is performed regardless of the on/off status of CH1 Count enable command (Y4).
(7)	While the cycle pulse counter function is performed, 1 is stored in CH1 Sampling/cycle counter flag (Un\G11).

### Point P

Set the cycle time by writing the data within the range of 1 to 65535 to CH1 Sampling/cycle time setting (Un\G10). The unit of time differs depending on the counting speed setting in CH1 Sampling/cycle time setting (Un\G10). For details, refer to the following.

Page 63 CH1 Sampling/cycle time setting

### Precautions for reading the previous value, current value, and difference value

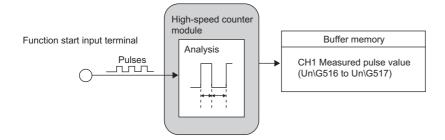
Depending on the relation between the update timing of the previous value or current value in the module and the read timing of the value using a program, the previous value and current value may match. When the previous value and current value match, read the values again.

## **1.6** Pulse Measurement Function

This mode measures the following times of the pulse input in the function start input terminal.

- ON width
- OFF width
- From the rising edge of the pulse to the rising edge of the next pulse
- · From the falling edge of the pulse to the falling edge of the next pulse

When the next pulse is measured, the measured value is written over the previous value.



### Setting method of the pulse measurement function

To use the pulse measurement function, select "Pulse measurement mode" for "Counter operation mode" in the parameter settings.

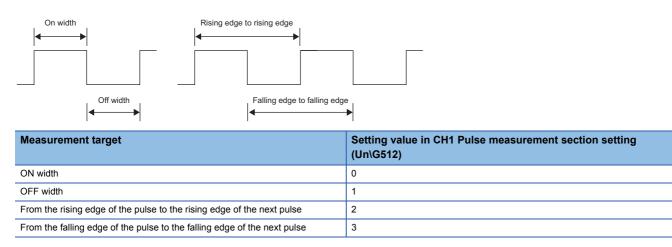
Navigation window ⇒ [Parameter] ⇒ [Module Information] ⇒ Module model name ⇒ [Module Parameter] ⇒ [Basic setting]

### Terminals for the pulse measurement function

This function measures the pulse input in the function start input terminal.

### Measurement target

Set the measurement target by storing a value in CH1 Pulse measurement section setting (Un\G512).



### Starting and stopping methods of the pulse measurement

The start or stop of the pulse measurement is determined by CH1 Pulse measurement start command (pulse measurement) (Y6). The pulse measurement starts at the rising edge of the signal and stops at the falling edge of the signal.

#### Measurable range of the pulses

The measured values of the pulses are stored in CH1 Measured pulse value (Un\G516 to Un\G517). The measurable range of the pulses is between 2000 and 2147483647 (0.2ms to approx.214s).

#### Overflow error

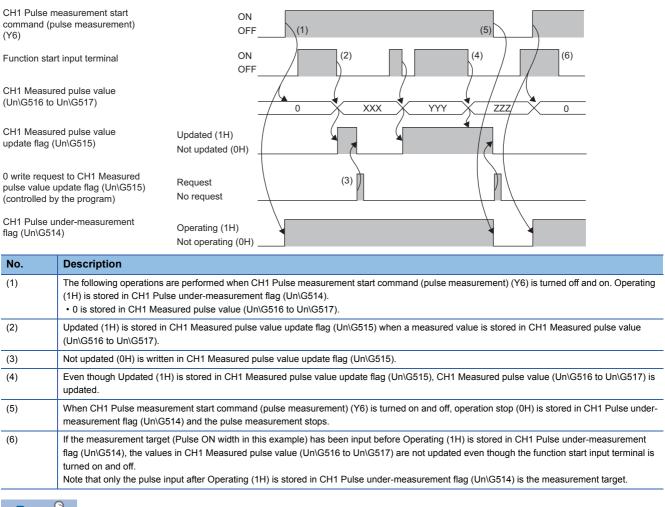
- When the input pulses are beyond the measurable range, an overflow error will be detected.
- When an overflow error occurs, 1 is stored in CH1 Overflow detection (Un\G8).
- · Clear the overflow error using the following restarting method.

#### Restarting method of the pulse measurement

To resume the measurement, input the pulses once again, or turn off and on CH1 Pulse measurement start command (pulse measurement) (Y6).

#### Operation example of the pulse measurement function

The following figure shows an operation example of the pulse measurement function. Assume that a target for pulse measurement is already set to the pulse ON width.

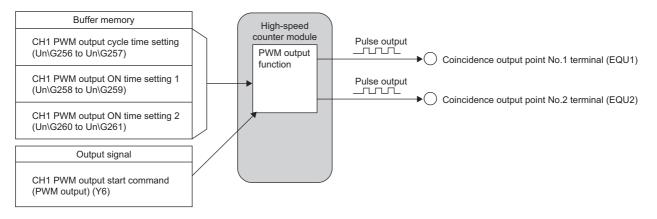


Point P

Do not use CH1 Measured pulse value update flag (Un\G515) when the values in CH1 Measured pulse value (Un\G516 to Un\G517) are retrieved via the auto refresh target device. (When Updated (1H) is stored in CH1 Measured pulse value update flag (Un\G515) after the auto refresh is done, the updated values are not reflected to the auto refresh target device and therefore, the values retrieved via the auto refresh target device are the ones before the updating.)

## **1.7 PWM** Output Function

This function outputs the PWM waveform of up to 200kHz, 100ns as the minimum ON width  $(0.1\mu s)$  from the PWM output point No.1 terminal (EQU1) and PWM output point No.2 terminal (EQU2).



#### Setting method of the PWM output function

To use the pulse measurement function, select "PWM output mode" for "Counter operation mode" in the parameter settings.

Navigation window ⇔ [Parameter] ⇔ [Module Information] ⇔ Module model name ⇔ [Module Parameter] ⇔ [Basic setting]

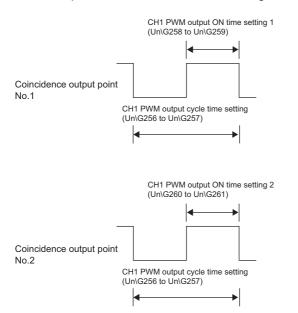
#### PWM output terminal

The PWM output waveform is output from the following terminals.

- PWM output point No.1 terminal (EQU1)
- PWM output point No.2 terminal (EQU2)

#### Setting method of the output waveform

Set the output waveform as follows. The setting values shown below can be changed during the output.



Setting item	Setting details
CH1 PWM output cycle time setting (Un\G256 to Un\G257)	Set the time of one cycle of the output pulse in the range of 0 to 2147483647. Set the value in increments of $0.1 \mu s$ .
CH1 PWM output ON time setting 1 (Un\G258 to Un\G259)	<ul> <li>Set the ON time of the output pulse from the PWM output point No.1 terminal (EQU1) in the range of 0 to 2147483647. Set the value in increments of 0.1μs.</li> <li>When no pulse is output from the PWM output point No.1 terminal (EQU1), set 0.</li> </ul>
CH1 PWM output ON time setting 2 (Un\G260 to Un\G261)	<ul> <li>Set the ON time of the output pulse from the PWM output point No.2 terminal (EQU2) in the range of 0 to 2147483647. Set the value in increments of 0.1μs.</li> <li>When no pulse is output from the PWM output point No.2 terminal (EQU2), set 0.</li> </ul>

The PWM output starts in the OFF status. When PWM output cycle time - PWM output ON time passes, the PWM output is turned on. The subtraction of PWM output cycle time - PWM output ON time is performed in the high-speed counter module. When the result of the subtraction is 0, the PWM output is always on, and when the result of the subtraction is a negative value, the PWM output is always off.

Point P

- When a value other than the setting range described above is set in each of CH1 PWM output cycle time setting (Un\G256 to Un\G257), CH1 PWM output ON time setting 1 (Un\G258 to Un\G259), and CH1 PWM output ON time setting 2 (Un\G260 to Un\G261), a normal pulse may not be output.
- By using the calculation formula of PWM output ON time = PWM output cycle time × Duty ratio (%) ÷ 100, the PWM output ON time can be calculated based on the duty ratio specified by users.

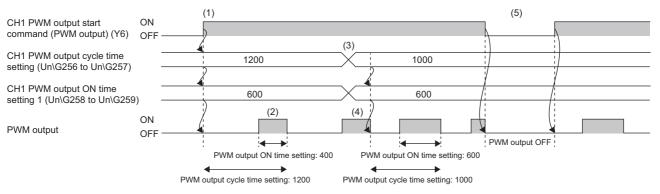
#### ■Setting condition

Set a value that satisfies all the following conditions. Otherwise, the PWM output is always off.

- PWM output cycle time setting > 0
- PWM output ON time setting > 0
- PWM output cycle time setting ≥ PWM output ON time setting (When this relation is =, the PWM output is always on.)

#### Operation example of the PWM output function

The following figure shows an operation example of the PWM output function.



No.	Description
(1)	When CH1 PWM output start command (PWM output) (Y6) is turned off and on, the PWM output starts according to the following setting values         • CH1 PWM output cycle time setting (Un\G256 to Un\G257)         • CH1 PWM output ON time setting 1 (Un\G258 to Un\G259)         • CH1 PWM output ON time setting 2 (Un\G260 to Un\G261)
(2)	The PWM output is on while CH1 PWM output start command (PWM output) (Y6) is on.
(3)	The following setting values can be changed while the PWM output is on.         • CH1 PWM output cycle time setting (Un\G256 to Un\G257)         • CH1 PWM output ON time setting 1 (Un\G258 to Un\G259)         • CH1 PWM output ON time setting 2 (Un\G260 to Un\G261)
(4)	When the following setting values are changed, the changes are applied from the next output.         • CH1 PWM output cycle time setting (Un\G256 to Un\G257)         • CH1 PWM output ON time setting 1 (Un\G258 to Un\G259)         • CH1 PWM output ON time setting 2 (Un\G260 to Un\G261)
(5)	When CH1 PWM output start command (PWM output) (Y6) is turned on and off while the PWM output is on, the PWM output stops. The PWM output is off while CH1 PWM output start command (PWM output) (Y6) is off.

Point *P* 

The waveform output from the PWM output point No.1 terminal (EQU1) or PWM output point No.2 terminal (EQU2) is affected by the output circuit or connected device of the high-speed counter module. Check the waveform by using a device such as a synchroscope, and set the output waveform.

#### Precautions for mounting a remote head module

When a high-speed counter module has been mounted with a remote head module, whether to hold or clear the Y signal at a disconnection of own station can be set with "CPU error output mode setting" in the module parameter. According to this setting, whether to hold or clear the PWM output can be specified.

Setting methods when the parameter is set with "CPU error output mode setting" are described as follows.

- Enable the station-based block data assurance for cyclic data in the sending side.
- To hold the PWM output at a disconnection, select "Hold" for "CPU error output mode setting" in the module parameter.

• To stop the PWM output at a disconnection, select "Clear" for "CPU error output mode setting" in the module parameter. This setting is valid in module units. The parameter cannot be set in each channel.

**38** 1 FUNCTIONS 1.7 PWM Output Function

# **2** PARAMETER SETTINGS

This chapter describes the parameter settings of the high-speed counter module. Setting parameters here eliminates the need to program them.

## **2.1** Parameter Setting Procedure

- **1.** Add the high-speed counter module to an engineering tool.
- C Navigation window ⇒ [Parameter] ⇒ [Module Information] ⇒ Right-click ⇒ [Add New Module]
- **2.** The basic setting, application setting, interrupt setting, and refresh settings are included in the parameter setting. Select one of the settings from the tree on the window shown below.
- Navigation window ⇔ [Parameter] ⇔ [Module Information] ⇔ Select the high-speed counter module ⇔ [Module Parameter]
- **3.** Write the setting to the CPU module with an engineering tool.
- <sup>™</sup> [Online] ⇒ [Write to PLC]
- 4. When the CPU module is reset or is powered off and on, the setting is reflected.

## 2.2 Basic Setting

Set the parameters for the basic functions of the high-speed counter module.

000:RD62P2 Module Parameter		
Setting Item List	Setting Item	
Input the Setting Item to Search		
	Item	CH1 CH2
Basic setting	Pulse input mode	Set the pulse input mode.
Application setting	Pulse input mode	0: 1-phase multiple of 1 0: 1-phase multiple of 1
Interrupt setting	Counting speed setting	Set the counting speed.
B Refresh settings	Counting speed setting	0:10kpps 0:10kpps
-	Counter type	Set the counter type.
	Counter type	0: Linear counter 0: Linear counter
	Counter operation mode	Set the counter operation mode.
	Counter operation mode	0: Pulse count mode 0: Pulse count mode
	Preset Value Setting	Area to set a value to be preset to the counter
	Preset Value Setting	0 0
	Coincidence output point No.1	Area to write the setting value of Coincidence output point No
	Coincidence output point No.1	0 0
	Coincidence output point No.2	Area to write the setting value of Coincidence output point No
	Explanation	
	Set the pulse input mode.	A
Item List Find Result	Chec <u>k</u> Restore the	Default Settings

Item	Setting range	Reference
Pulse input mode <sup>*1</sup>	<ul> <li>0: 1-phase multiple of 1 (default value)</li> <li>1: 1-phase multiple of 2</li> <li>2: CW/CCW</li> <li>3: 2-phase multiple of 1</li> <li>4: 2-phase multiple of 2</li> <li>5: 2-phase multiple of 4</li> </ul>	_
Counting speed setting*1	<ul> <li>0: 10kpps (default value)</li> <li>1: 100kpps</li> <li>2: 200kpps</li> <li>3: 500kpps (RD62D2 only)</li> <li>4: 1Mpps (RD62D2 only)</li> <li>5: 2Mpps (RD62D2 only)</li> <li>6: 4Mpps (RD62D2 only)</li> <li>7: 8Mpps (RD62D2 only)</li> </ul>	_
Counter type <sup>*1</sup>	O: Linear counter (default value)     1: Ring counter	-

Item	Setting range	Reference
Counter operation mode <sup>*1</sup>	<ul> <li>0: Pulse count mode (default value)</li> <li>1: Pulse measurement mode</li> <li>2: PWM output mode</li> </ul>	_
Preset value setting	-2147483648 to 2147483647 (default value: 0)	Page 62 CH1 Preset value setting
Coincidence output point No.1	-2147483648 to 2147483647 (default value: 0)	Page 62 CH1 Coincidence output point No.1 setting
Coincidence output point No.2	-2147483648 to 2147483647 (default value: 0)	Page 62 CH1 Coincidence output point No.2 setting
Ring counter upper limit value setting	-2147483648 to 2147483647 (default value: 0)	Page 65 CH1 Ring counter upper limit value setting
Ring counter lower limit value setting	-2147483648 to 2147483647 (default value: 0)	Page 65 CH1 Ring counter lower limit value setting

\*1 The item can be set only in the parameter setting. It cannot be changed from the program.

## 2.3 Application Setting

Set the parameters for the various functions of the high-speed counter module.

0000:RD62P2 Module Parameter				
Setting Item List	Setting Item			
Input the Setting Item to Search				
	Item	CH1	CH2	
	Counter Function Selection	Select the counter function	1.	
Basic setting     Application setting	Counter Function Selection	0: Count disable function	0: Count disable function	
Interrupt setting	Sampling Time Setting/Period Time Setting	Area to write the time set	ting values of the sampling	C
Refresh settings	Sampling Time Setting/Period Time Setting	0 ×10ms	0 ×10ms	
	Function input response time setting	Set the function input resp	oonse time.	=
	Function input response time setting	4: Response time 0.1ms	4: Response time 0.1ms	
	Preset input response time setting	Set the preset input respo	nse time.	
	Preset input response time setting	4: Response time 0.1ms	4: Response time 0.1ms	
	Pulse Measuring Interval Setting	Select one of the ON widt	h, OFF width, Rise to Rise	5.
	Pulse Measuring Interval Setting	0: ON width	0: ON width	
	PWM Output Interval Time Setting	Input the cycle time for th	e PWM output.	
	PWM Output Interval Time Setting	2147483647 × 0.1us	2147483647 × 0.1us	
	PWM Output On Time Setting 1	Input the ON time for the I	PWM output 1.	<b>.</b>
	Explanation Select the counter function.			*
Item List Find Result	Check Restore the Default Settings			

Item	Setting range	Reference
Counter function selection setting	<ul> <li>0: Count disable function (default value)</li> <li>1: Latch counter function</li> <li>2: Sampling counter function</li> <li>3: Cycle pulse counter function</li> </ul>	Page 63 CH1 Counter function selection setting
Sampling/cycle time setting	1 to 65535 (default value: 0) $\times$ 10ms <sup>*3</sup>	Page 63 CH1 Sampling/cycle time setting
Function input response time setting <sup>*1</sup>	<ul> <li>0: Response time 0ms</li> <li>4: Response time 0.1ms (default value)</li> <li>8: Response time 1ms</li> <li>10: Response time 10ms</li> </ul>	_
Preset input response time setting <sup>*1</sup>	<ul> <li>0: Response time 0ms</li> <li>4: Response time 0.1ms (default value)</li> <li>8: Response time 1ms</li> <li>10: Response time 10ms</li> </ul>	_
Pulse measurement section setting	<ul> <li>0: ON width (default value)</li> <li>1: OFF width</li> <li>2: Rise—Rise</li> <li>3: Fall—Fall</li> </ul>	Page 67 CH1 Pulse measurement section setting
PWM output cycle time setting	0 to 2147483647 (default value: 2147483647) $\times$ 0.1 $\mu s$	Page 67 CH1 PWM output cycle time setting
PWM output ON time setting 1	0 to 2147483647 (default value: 0) $\times$ 0.1 $\mu s$	Page 67 CH1 PWM output ON time setting 1
PWM output ON time setting 2	0 to 2147483647 (default value: 0) $\times$ 0.1 $\mu s$	Page 67 CH1 PWM output ON time setting 2
CPU error output mode setting*1*2	• 0: Clear (default value)     • 1: Hold	-

\*1 The item can be set only in the parameter setting. It cannot be changed from the program.

\*2 The external output status (clear/hold) of the high-speed counter module for when a CPU stop error occurs can be set.

\*3 If a value larger than 1Mpps is set in "Counting speed setting" when the RD62D2 is used, the unit is changed from 10ms to 1ms.

## 2.4 Interrupt Setting

Set the interrupt function of the high-speed counter module.

0000:RD62P2 Module Parameter					
Setting Item List	Setting Item				
Input the Setting Item to Search					
	No.	XY signal	Condition target channel setting	Interrupt pointer	<b>A</b>
	1	X0	-		
⊕-     ⊕     Basic setting ⊕-     ⊕     Application setting	2	X1	CH1		
Interrupt setting	3	X2	CH1		
⊞-∰ Refresh settings	4	X3	CH1		
	5	X4	CH1		
	6	X5	CH1		=
	7	X6	CH1		
	8	X7	CH1		
	9	X8	CH2		
	10	X9	CH2		
	11	XA	CH2		
	12	XB	CH2		
	13	XC	CH2		
	J				
	Explanation				
					*
					Ŧ
Item List Find Result	Check	Restore the De	fault Settings		
1					

Item	Setting range	Reference
Interrupt pointer	10 to 115, 150 to 11023 <sup>*1</sup>	Page 23 Coincidence detection interrupt function

\*1 For details on the interrupt pointers that can be used, refer to the following. MELSEC iQ-R CPU Module User's Manual (Application)

## 2.5 Refresh Setting

Set the transfer destination of the settings in the buffer memory of the high-speed counter module such as module labels and devices of the CPU module. By configuring the refresh setting, the reading from the program is not required.

Select one of the following transfer destinations in "Target".

- Module Label ( 🗁 Page 43 Module Label)
- Refresh Data Register ( I Page 43 Refresh data register (RD))
- Device (
   Page 43 Specified device)

#### Module Label

The settings of the buffer memory are transferred to the module label corresponding to each buffer memory area. When "Present value" of the channel transferred to the module label is set to "Enable", all the items of the set channel are set to "Enable".

#### Refresh data register (RD)

The settings of the buffer memory are transferred to the refresh data register (RD) of the CPU module. The transfer destinations of all items are automatically set by setting the start device to "Top Device Name".

#### Specified device

The settings of the buffer memory are transferred to the specified device of the CPU module. The device X, Y, M, L, B, D, W, R, ZR, and RD can be specified. When the bit device X, Y, M, L, or B is used, set a number that can be divided by 16 points (example: X10, Y120, and M16). Also, the buffer memory data is stored in the devices for 16 points starting from the set device number.

Ex. When X10 is set, the data is stored in X10 to X1F.

#### Setting item

The following items are provided in the refresh settings.

Setting Item List	Setting Item		
Input the Setting Item to Search	Target Module Label	Number of The Transfers 44	4
Basic setting     Application setting     Manual Interrupt setting     Refresh settings		CH1 Transfer the buffer memor Enable Enable	y data to the specified device. Enable Enable
20-130 Petresh settings	Counter Function Update Flag     Latch Count Value     Sampline Count Value     Period Pulse Count Previous Value     Period Pulse Count Previous Value     Period Pulse Count Difference Value(L)     Period Pulse Count Difference Value(H)     Overflow detection	Enable Enable Enable Enable Enable Enable Enable Enable	Enable Enable Enable Enable Enable Enable Enable
	Pulse Measuring Function Running Flag Pulse Measuring Value Update Flag Explanation	Enable Enable Enable	Enable Enable Enable
frem List Find Result	Check Restore the Default Settings		

Item Reference			
Refresh at the set timing	Transfer to the CPU	Present value	Page 62 CH1 Present value
		Sampling/cycle counter flag	Page 64 CH1 Sampling/cycle counter flag
		Counter function update flag	Page 66 CH1 Counter function update flag
		Latch count value	Page 64 CH1 Latch count value
		Sampling count value	Page 64 CH1 Sampling count value
		Cycle pulse count previous value	Page 64 CH1 Cycle pulse count previous value
		Cycle pulse count current value	Page 65 CH1 Cycle pulse count current value
		Cycle pulse count difference value (L)	Page 65 CH1 Cycle pulse count difference
		Cycle pulse count difference value (H)	value
		Overflow detection	Page 63 CH1 Overflow detection
		Pulse under-measurement flag	Page 68 CH1 Pulse under-measurement flag
		Measured pulse value update flag	Page 68 CH1 Measured pulse value update flag
		Measured pulse value	Page 68 CH1 Measured pulse value
		Signal monitor	Page 66 CH1 Signal monitor
Refresh Group		Refresh Group	Page 44 Refresh Group
		Group [n] (n: 1-64)	
Refresh Timing (I/O) <sup>*1</sup>		Refresh Timing	—
nter-module synchronous	Transfer to the CPU	Synchronization latch count value	-
nterrupt function		Synchronization measured pulse value	-
Refresh Timing (Synchronous	Interrupt) <sup>*1</sup>	Refresh Group	Page 44 Refresh Group

\*1 For the high-speed counter module, the default setting cannot be changed.

#### ■Refresh Group

Set the refresh timing of the specified refresh destination.

Setting value	Description
At the Execution Time of END Instruction	The refresh is performed when the END instruction of the CPU module is executed.
At the Execution Time of Specified Program	The refresh is performed when the program specified in "Group [n]" is executed.
At the Execution Time of Synchronous Interrupt Program between Unit	The refresh is performed when the interrupt program by the interrupt pointer is executed.

## **Refresh processing time**

A refresh processing time  $[\mu s]$  is a constituent of the scan time of the CPU module. For details on the scan time, refer to the following.

MELSEC iQ-R CPU Module User's Manual (Application)

The refresh processing time [ $\mu$ s], which is taken for refresh, is given by:

• Refresh processing time [µs] = Refresh read time (time for transferring refresh data to the CPU module)

The refresh read time varies depending on the settings of "Target".

With the inter-module synchronization function used, the refresh read time is also added to the execution time of an intermodule synchronous interrupt program.

#### When "Target" is a module label or a refresh data register (RD)

The following table shows the refresh read time with an R□CPU used.

Classification	When using the refresh settings		When using the inter-module synchronization function			
	Set to CH1 only	Set to CH2 only	Set to CH1 and CH2	Set to CH1 only	Set to CH2 only	Set to CH1 and CH2
Refresh read time	15.07μs	15.07μs	18.63µs	15.63μs	15.63μs	15.83µs

#### When "Target" is a specified device

Calculate the refresh read time according to the number of items and the number of their transfer data (word) that are set to be refreshed. For the calculation method, refer to the following.

MELSEC iQ-R CPU Module User's Manual (Application)

## 2.6 Preset Setting

Execute the preset from "Module Tool List" of the engineering tool.

#### Setting method

- 1. Select "iQ-R Series" from "Module Series Selection", and set "Preset".
- 2. Select the high-speed counter module to execute the preset in the "Module Selection (Preset)" window.
- **3.** Execute the preset.
- "∑ [Tool] ⇒ [Module Tool List]

0x0000.RD62P2
Change Preset Value
External Preset Request Not Defected (Acceptable) Not Detected (Acceptable) Accept External Preset Request Close
Description
The preset value of the selected channel is changed. The changed preset value is reflected to the "Preset Value" column.
The value of "Preset Value" is reflected to "Current Value".
When CH1 External preset request detection (X4) is on, the "External Preset Request" column becomes "Detecte (Unacceptable)", and the preset function cannot be executed. When this button is clicked, CH1 External preset request detection (X4) turns off, and the preset function can be executed.

Point P

The preset value changed with "Change Preset Value" returns to the preset value set in the parameter setting or the one set using a program when the CPU module is reset or is powered off and on. When the preset value change needs to be held, set the preset value in the parameter setting or using a program.

# **3** TROUBLESHOOTING

This chapter describes errors that may occur while using the high-speed counter module, and those troubleshooting.

Point P

Throughout the chapter, the I/O numbers (X/Y) and buffer memory addresses are described on the basis of the case of CH1.

To check them of CH2, refer to the following:

Page 54 List of I/O signals

Page 60 List of buffer memory addresses

## **3.1** Procedure for Troubleshooting

If a trouble occurs, try the following troubleshooting steps:

- **1.** Check whether each module is mounted and wired correctly.
- ( MELSEC iQ-R Module Configuration Manual)
- 2. Check the LEDs of the power supply module and CPU module. (LD User's Manual of each module)
- **3.** Check the error cause and corrective action by the symptom to correct the error. ( Page 48 Troubleshooting by Symptom)

## 3.2 Checking Module Status

An overflow error can be checked in CH1 Overflow detection (Un\G8).

#### Error information to be detected by the high-speed counter module

Description and cause	Where to check the error information	Action
Overflow error	Overflow detection flag	Execute a preset to clear the overflow
<ul> <li>In linear counter, an up pulse has been counted</li> </ul>	CH1 Overflow detection (Un\G8) stores one of the following	error.
from the present value 2147483647.	values:	
<ul> <li>In linear counter, a down pulse has been counted</li> </ul>	0: No overflow	
from the present value -2147483648.	1: Overflow occurred	

## **3.3** Troubleshooting by Symptom

## When the count operation does not start

Check item	Action
Check whether the CPU module indicates any error.	If the CPU module indicates an error, refer to the troubleshooting in the following manual.
Apply a voltage directly to the pulse input terminals of $\phi A$ and $\phi B$ , and check that each LED of $\phi A$ and $\phi B$ turns on.	If the LEDs turn on, check the external wiring and wiring on the encoder side to correct the errors. If the LEDs do not turn on, a hardware failure is a likely cause. Please consult your local Mitsubishi representative.
Check whether the external wiring of $\phi A$ and $\phi B$ is normal.	Check the external wiring to correct the errors.
Check whether CH1 Count enable command (Y4) is on.	Turn on CH1 Count enable command (Y4) using a program.
Check whether the pulse input method is the same as the pulse input mode of Basic setting.	Match the pulse input method to the pulse input mode of Basic setting.
Check whether the counter operation mode is set to pulse count mode.	Set the counter operation mode to pulse count mode in Basic setting.
Check whether CH1 Counter function selection start command (Y6) is on, and a voltage is applied to the function start input terminals.	If the count disable function is set by the counter function selection, turn off CH1 Counter function selection start command (Y6) and the function start input terminals.
Check whether an overflow error occurs.	Execute a preset to clear the overflow error. For details, refer to the following. Image 47 Checking Module Status

## When the count operation is not normal

Check item	Action
Check whether the external wiring of $\phi A$ and $\phi B$ is normal.	Check the external wiring to correct the errors.
	Even in 1-phase input, connecting an ABCOM terminal to a pulse signal can result in an incorrect count. Reconnect the ABCOM terminal again to an external power supply (5V/12V/24V) or a GND terminal. (L MELSEC iQ-R High-Speed Counter Module User's Manual (Startup))
Check whether the maximum counting speed for input pulses falls within the range of the counting speed of Basic setting.	Correct the counting speed setting of Basic setting to accommodate the maximum counting speed for input pulses.
Check whether the waveform of pulses being inputted meets the performance specifications.	Observe and check the pulse waveform with a synchroscope. If the input pulse does not meet the performance specifications, input pulses which meet the performance specifications.
Check whether the count value data is processed as 32-bit signed binary data in the program.	Correct the program to process the count value data in 32-bit signed binary.
Check whether the shielded twisted pair cables are used for pulse input wiring.	Use the shielded twisted pair cables for pulse input wiring.
Check whether any noise comes from the grounded part of the high-speed counter module.	Separate the grounding cable of the high-speed counter module from the grounded part. If the high-speed counter module touches the grounded part, separate it.
Check whether measures against noise are taken for the adjacent devices and inside the control panel.	Take noise reduction measures such as attaching a CR surge suppressor to the magnet switch.
Check whether the distance between the high voltage device and pulse input line is kept enough.	Bundle the pulse input lines separately from other lines in piping and tubing, and keep a distance of 150mm or more between the pulse input lines and the power line even inside the control panel.
Check whether both CH1 and CH2 return the same count value after the same count is inputted.	If these count values are different each other, a hardware failure is a likely cause. Please consult your local Mitsubishi representative.
Check whether the preset value is set so that the value is out of the count range of the ring counter (ring counter function only).	Set the preset value so that the value falls within the count range of the ring counter.

## When the coincidence output function does not operate normally

Check item	Action
Check whether CH1 Coincidence signal No.1 reset command (Y0) and CH1 Coincidence signal No.2 reset command (Y7) turn on.	Turn off CH1 Coincidence signal No.1 reset command (Y0) and CH1 Coincidence signal No.2 reset command (Y7).
Check whether CH1 Coincidence output point No.1 setting (Un\G4, Un\G5) and CH1 Coincidence output point No.2 setting (Un\G6, Un\G7) are set so that the values are out of the count range of the ring counter (ring counter function only).	Set CH1 Coincidence output point No.1 setting (Un\G4, Un\G5) and CH1 Coincidence output point No.2 setting (Un\G6, Un\G7) so that the values fall within the count range of the ring counter.
Check whether CH1 Coincidence signal enable command (Y2) is on.	Turn on CH1 Coincidence signal enable command (Y2).
Check whether a voltage is applied to the power supply terminal for external coincidence output.	Apply a voltage to the power supply terminal for external coincidence output.
Check whether the external wiring of the coincidence output point No.1 terminal (EQU1) and coincidence output point No.2 terminal (EQU2) is normal.	Check the external wiring to correct the errors.

## When a coincidence detection interrupt does not occur

Check item	Action
Check whether the intelligent function module interrupt pointer setting of the PC parameter is incorrect.	Review and correct the intelligent function module interrupt pointer setting.
Check whether the program execution control instruction such as IMASK has been used incorrectly.	Review and correct the program.
Check whether CH1 Counter value coincident (point No.1) (X2) and CH1 Counter value coincident (point No.2) (X6) still remain on.	Reset (off) CH1 Counter value coincident (point No.1) (X2) and CH1 Counter value coincident (point No.2) (X6) by using CH1 Coincidence signal No.1 reset command (Y0) and CH1 Coincidence signal No.2 reset command (Y7) with the point number matched.

### When the preset cannot be executed

Check item	Action
Check whether the CPU module indicates any error.	If the CPU module indicates an error, refer to the troubleshooting in the following manual.
Check whether CH1 External preset request detection (X4) is on.	Reset (off) CH1 External preset request detection (X4) by using CH1 External preset detection reset command (Y5).
Check whether the external wiring of the preset input terminal is normal.	Check the external wiring to correct the errors.

## When the pulse measurement does not start

Check item	Action
Check whether the CPU module indicates any error.	If the CPU module indicates an error, refer to the troubleshooting in the following manual.
Check whether the counter operation mode is set to pulse measurement mode.	Set the counter operation mode to pulse measurement mode in Basic setting.
Check whether CH1 Count enable command (Y4) is on.	Turn on CH1 Count enable command (Y4) using a program.
Check whether the external wiring of the pulse measurement terminal is normal.	Check the external wiring to correct the errors.

### When the pulses are not measured correctly

Check item	Action
Check whether the shielded twisted pair cables are used for pulse input wiring.	Use the shielded twisted pair cables for pulse input wiring.
Check whether any noise comes from the grounded part of the high-speed counter module.	Separate the grounding cable of the high-speed counter module from the grounded part. If the high-speed counter module touches the grounded part, separate it.
Check whether measures against noise are taken for the adjacent devices and inside the control panel.	Take noise reduction measures such as attaching a CR surge suppressor to the magnet switch.
Check whether the distance between the high voltage device and pulse input line is kept enough.	Bundle the pulse input lines separately from other lines in piping and tubing, and keep a distance of 150mm or more between the pulse input lines and the power line even inside the control panel.
Check whether the section of the pulse to be measured is corresponding to the pulse measurement section setting	Correct the pulse measurement section setting to suit the section of the pulse to be measured.
Check whether the program, if used for reading out the measured pulse value, reads out the value in unit of 2 words (32 bits).	Read out it in unit of 2 words (32 bits).
Check whether the external wiring of the pulse measurement terminal is normal.	Check the external wiring to correct the errors.

## When the PWM output is not correct

Check item	Action
Check whether the CPU module indicates any error.	If the CPU module indicates an error, refer to the troubleshooting in the following manual.
Check whether the counter operation mode is set to PWM output mode.	Set the counter operation mode to PWM output mode in Basic setting.
Check whether a voltage is applied to the power supply terminal for external output.	Apply a voltage to the power supply terminal for external output.
Check whether the external wiring of the PWM output point No.1 terminal (EQU1) and PWM output point No.2 terminal (EQU2) is normal.	Check the external wiring to correct the errors.
Check whether anything other than a resistive load is connected to the PWM output point No.1 terminal (EQU1) and PWM output point No.2 terminal (EQU2).	Connect a resistive load because the output waveform is highly distorted by connecting a load other than a resistive load.
Check whether the shielded twisted pair cables are used for PWM output wiring.	Use the shielded twisted pair cables for PWM output wiring.
Check whether any noise comes from the grounded part of the high-speed counter module.	Separate the grounding cable of the high-speed counter module from the grounded part. If the high-speed counter module touches the grounded part, separate it.
Check whether measures against noise are taken for the adjacent devices and inside the control panel.	Take noise reduction measures such as attaching a CR surge suppressor to the magnet switch.
Check whether the distance between the high voltage device and PWM output line is kept enough.	Bundle the PWM output lines separately from other lines in piping and tubing, and keep a distance of 150mm or more between the PWM output lines and the power line even inside the control panel.

# When the inter-module synchronization function does not operate correctly

Check item	Action
Check whether the high-speed counter module is set as the synchronization target module in the system parameter setting of GX Works3.	Check "Module Synchronous Status" on the system monitor of GX Works3. When "Module Synchronous Status" is displayed as "-", the high-speed counter module is not set as the synchronization target module. Set the high-speed counter module as the synchronization target module in the system parameter setting of GX Works3.
Check that the CPU module is in the RUN status.	If the CPU module is not in the RUN status, switch the status to RUN.
Check whether the inter-module synchronous interrupt program exists.	If the inter-module synchronous interrupt program does not exist, add the program.
Check whether the EI instruction is executed.	Execute the EI instruction.

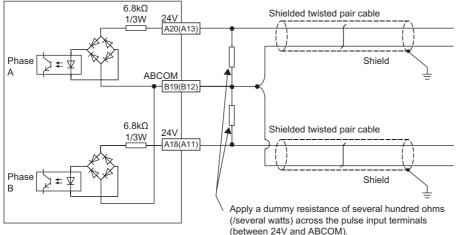
### Pulse waveform shaping method

To shape pulse waveform effectively, increase the load current in cables by inserting a dummy resister of several hundreds  $\Omega$  (/several W) between the pulse input terminals connected to a pulse generator. The greater the load current, the more effective this method is.

The following figure shows an example of the connection of a dummy resistor at signal level 24VDC:

• Connecting a dummy resister at 24VDC

RD62P2, RD62P2E



Shaping a pulse waveform is effective as a countermeasure against the following two cases.

#### Distance between the pulse generator and the high-speed counter module is long.

The waveform distortion is corrected and the pulse waveform becomes stable.

#### Waveform is distorted under a noise environment.

The pulse waveform becomes stable by shaping the waveform, which has an effect on external noise reduction.

Point P

The following example describes how to evaluate the resistance constant and rated-power of a dummy resister. For example, if a load current of approximately 30mA is set, the resistance constant of a dummy resistor is given by:  $R = V \div I = 24V \div 30mA = 800\Omega$ and the voltage applied to a dummy resistor is given by:  $P = V \times I = 24V \times 30mA = 0.72W$ Select a dummy resistor with the rated power of 2W, considering the design margin.

# APPENDICES

## Appendix 1 Module Label

The functions of the high-speed counter module can be set by using module labels.

#### Module labels of I/O signals

The module label name of an I/O signal is defined with the following structure: "Module name"\_"Module number"."I/O signal"["(Channel)"].b"Label name" or "Module name"\_"Module number"."I/O signal"["(Channel)"].b"Label name"\_D

### Ex.

RD62\_1.stnInputSignal[0].bCoincidenceOutputPoint1CounterValueLarge\_D

#### ■Module name

The character string of a module model name is given.

#### ■Module number

A number starting from 1 is added to identify modules that have the same module name.

#### I/O signal

The character string that represents an input or output signal is given (Input signal: stnInputSignal, Output signal: stnOutputSignal). Note that RD62\_(x).bReady does not include this string.

#### ■Channel

The channel number corresponding to a module label is given. If the object belongs to CH1, 0 is given. If the object belongs to CH2, 1 is given.

#### ■Label name

The label identifier unique to a module is given.

### ∎\_D

This string indicates that the module label is for the direct access input (DX) or direct access output (DY). A module label without the string is for the input (X) or output (Y) of the refresh processing.

#### Module labels of buffer memory areas

The module label name of a buffer memory area is defined with the following structure: "Module name"\_"Module number"."Data type"["(Channel)"]."Data format""Label name" or "Module name"\_"Module number"."Data type"\_D["(Channel)"]."Data format""Label name"\_D

Ex.

RD62\_1.stnBufferBlock0\_D[0].dPresetValueSetting\_D

#### Module name

The character string of a module model name is given.

#### ■Module number

A number starting from 1 is added to identify modules that have the same module name.

#### ■Data type

The data type to sort a buffer memory area is given. Each data type is as follows:

Data type	Description
stnBufferBlock0	Used for pulse count mode.
stnPulseMeasuring	Used for pulse measurement mode.
stnPWM	Used for PWM output mode.
stnSynchronousRefreshArea0	Used for the inter-module synchronization function.

#### ■Channel

The channel number corresponding to a module label is given. If the object belongs to CH1, 0 is given. If the object belongs to CH2, 1 is given.

#### ■Data format

The string that represents the data size of a buffer memory area is given. Each data format is as follows:

Data format	Description
u	16-bit unsigned binary value
d	32-bit signed binary value
udn	32-bit unsigned binary value

#### ■Label name

The label identifier unique to a module is given.

#### ∎\_D

This string indicates that the module label is for the direct access. A module label without the string is for the auto refresh. The following shows the differences between the auto refresh and the direct access.

Туре	Description	Access timing	Example
Auto refresh	Writing to and reading from the module label is reflected in the high-speed counter module collectively at the auto refresh. The execution time of the program can be shortened. To use the auto refresh, select the module label for "Target" in "Refresh settings" of "Module Parameter".	At the auto refresh	RD62_1.stnBufferBlock0[0].dPr esentValue
Direct access	Writing to and reading from the module label is reflected in the high-speed counter module instantly. Although the execution time of the program is longer than the one at the auto refresh, the responsiveness is improved.	At writing to or reading from the module label	RD62_1.stnBufferBlock0_D[0].d PresentValue_D

## Appendix 2 I/O Signals

## List of I/O signals

The following table lists the I/O signals of the high-speed counter module.

For details on the I/O signals, refer to the following.

Page 55 Input signals

Page 57 Output signals

Point P

- The I/O numbers (X/Y) in this section apply when the start I/O number of the high-speed counter module is set to 0.
- The use prohibited signals are used by the system and is not available for users. If any of those signals is used (turned off and on) by users, the performance of the high-speed counter module is not guaranteed.

nput signal		
Device No.	Signal name	
X0	Module ready	
X1	CH1 Counter value larger (point No.1)	
X2	CH1 Counter value coincident (point No.1)	
Х3	CH1 Counter value smaller (point No.1)	
X4	CH1 External preset request detection	
X5	CH1 Counter value larger (point No.2)	
X6	CH1 Counter value coincident (point No.2)	
Х7	CH1 Counter value smaller (point No.2)	
X8	CH2 Counter value larger (point No.1)	
Х9	CH2 Counter value coincident (point No.1)	
ХА	CH2 Counter value smaller (point No.1)	
ХВ	CH2 External preset request detection	
XC	CH2 Counter value larger (point No.2)	
XD	CH2 Counter value coincident (point No.2)	
XE	CH2 Counter value smaller (point No.2)	
XF	Use prohibited	

#### Output signal

Device No.	Signal name	
Y0	CH1 Coincidence signal No.1 reset command	
Y1	CH1 Preset command	
Y2	CH1 Coincidence signal enable command	
Y3	CH1 Down count command	
Y4	CH1 Count enable command	
Y5	CH1 External preset detection reset command	
Y6	CH1 Counter function selection start command/PWM output start command/Pulse measurement start command	
Y7	CH1 Coincidence signal No.2 reset command	
Y8	CH2 Coincidence signal No.1 reset command	
Y9	CH2 Preset command	
YA	CH2 Coincidence signal enable command	
YB	CH2 Down count command	
YC	CH2 Count enable command	
YD	CH2 External preset detection reset command	
YE	CH2 Counter function selection start command/PWM output start command/Pulse measurement start command	
YF	CH2 Coincidence signal No.2 reset command	

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### Input signals

This section describes the details on the input signals from the high-speed counter module to the CPU module. The I/O numbers (X/Y) in this section apply when the start I/O number of the high-speed counter module is set to 0.

#### Point P

This section describes the I/O numbers (X/Y), buffer memory addresses, and external I/O terminals for CH1. To check the I/O numbers (X/Y) for CH2, refer to the following.

Page 54 List of I/O signals

To check the buffer memory addresses for CH2, refer to the following.

Page 60 List of buffer memory addresses

#### Module ready

- This signal turns on when the high-speed counter module is ready for counting operations after the CPU module is powered on or is reset.
- · Pulses are not counted while this signal is off.

#### Device number

The following table shows the device number of this input signal.

Signal name	CH1	CH2
Module ready	X0	

#### CH1 Counter value larger (point No.1)

- This signal turns on when the value in CH1 Present value (Un\G2 to Un\G3) is larger than the one in CH1 Coincidence output point No.1 setting (Un\G4 to Un\G5).
- This signal turns off when the value in CH1 Present value (Un\G2 to Un\G3) is equal to or smaller than the one in CH1 Coincidence output point No.1 setting (Un\G4 to Un\G5).

#### Device number

The following table shows the device number of this input signal.

Signal name	CH1	CH2
CH□ Counter value larger (point No.1)	X1	X8

#### CH1 Counter value coincident (point No.1)

- This signal turns on when the value in CH1 Present value (Un\G2 to Un\G3) is equal to the one in CH1 Coincidence output point No.1 setting (Un\G4 to Un\G5) and the on state will be latched.
- This signal turns off when CH1 Coincidence signal No.1 reset command (Y0) is turned on. Even if the value in CH1 Present value (Un\G2 to Un\G3) is kept to be equal to the one in CH1 Coincidence output point No.1 setting (Un\G4 to Un\G5), this signal does not turn on. After once the value in CH1 Present value (Un\G2 to Un\G3) becomes not equal to the one in CH1 Coincidence output point No.1 setting to the one in CH1 Coincidence output point No.1 setting (Un\G4 to Un\G5), this signal turns on when the value in CH1 Present value (Un\G2 to Un\G3) becomes equal to the one in CH1 Coincidence output point No.1 setting (Un\G4 to Un\G5), this signal turns on when the value in CH1 Present value (Un\G2 to Un\G3) becomes equal to the one in CH1 Coincidence output point No.1 setting (Un\G4 to Un\G5) again.

#### Device number

The following table shows the device number of this input signal.

Signal name	CH1	CH2
CHI Counter value coincident (point No.1)	X2	Х9

#### CH1 Counter value smaller (point No.1)

- This signal turns on when the value in CH1 Present value (Un\G2 to Un\G3) is smaller than the one in CH1 Coincidence output point No.1 setting (Un\G4 to Un\G5).
- This signal turns off when the value in CH1 Present value (Un\G2 to Un\G3) is equal to or larger than the one in CH1 Coincidence output point No.1 setting (Un\G4 to Un\G5).

#### Device number

The following table shows the device number of this input signal.

Signal name	CH1	CH2
CHD Counter value smaller (point No.1)	X3	ХА

#### CH1 External preset request detection

- This signal turns on by a preset command from an external input terminal and the on state will be latched.
- This signal turns off by CH1 External preset detection reset command (Y5).

#### Device number

The following table shows the device number of this input signal.

Signal name	CH1	CH2
CHD External preset request detection	X4	ХВ

#### CH1 Counter value larger (point No.2)

- This signal turns on when the value in CH1 Present value (Un\G2 to Un\G3) is larger than the one in CH1 Coincidence output point No.2 setting (Un\G6 to Un\G7).
- This signal turns off when the value in CH1 Present value (Un\G2 to Un\G3) is equal to or smaller than the one in CH1 Coincidence output point No.2 setting (Un\G6 to Un\G7).

#### Device number

The following table shows the device number of this input signal.

Signal name	CH1	CH2
CH□ Counter value larger (point No.2)	X5	XC

#### CH1 Counter value coincident (point No.2)

- This signal turns on when the value in CH1 Present value (Un\G2 to Un\G3) is equal to the one in CH1 Coincidence output point No.2 setting (Un\G6 to Un\G7) and the on state will be latched.
- This signal turns off when CH1 Coincidence signal No.2 reset command (Y7) is turned on. Even if the value in CH1 Present value (Un\G2 to Un\G3) is kept to be equal to the one in CH1 Coincidence output point No.2 setting (Un\G6 to Un\G7), this signal does not turn on. After once the value in CH1 Present value (Un\G2 to Un\G3) becomes not equal to the one in CH1 Coincidence output point No.2 setting to the one in CH1 Coincidence output point No.2 setting (Un\G6 to Un\G7), this signal turns on when the value in CH1 Present value (Un\G2 to Un\G3) becomes equal to the one in CH1 Coincidence output point No.2 setting (Un\G6 to Un\G7), this signal turns on when the value in CH1 Present value (Un\G2 to Un\G3) becomes equal to the one in CH1 Coincidence output point No.2 setting (Un\G6 to Un\G7), again.

#### ■Device number

The following table shows the device number of this input signal.

Signal name	CH1	CH2
CH□ Counter value coincident (point No.2)	X6	XD

#### CH1 Counter value smaller (point No.2)

- This signal turns on when the value in CH1 Present value (Un\G2 to Un\G3) is smaller than the one in CH1 Coincidence output point No.2 setting (Un\G6 to Un\G7).
- This signal turns off when the value in CH1 Present value (Un\G2 to Un\G3) is equal to or larger than the one in CH1 Coincidence output point No.2 setting (Un\G6 to Un\G7).

#### Device number

The following table shows the device number of this input signal.

Signal name	CH1	CH2
CH□ Counter value smaller (point No.2)	Х7	XE

### **Output signals**

This section describes the details on the output signals from the high-speed counter module to the CPU module. The I/O numbers (X/Y) in this section apply when the start I/O number of the high-speed counter module is set to 0.



This section describes the I/O numbers (X/Y), buffer memory addresses, and external input terminals for CH1. To check the I/O numbers (X/Y) for CH2, refer to the following.

Page 54 List of I/O signals

To check the buffer memory addresses for CH2, refer to the following.

IPage 60 List of buffer memory addresses

#### CH1 Coincidence signal No.1 reset command

This signal is turned on to reset CH1 Counter value coincident (point No.1) (X2).

#### Device number

The following table shows the device number of this output signal.

Signal name	CH1	CH2
CHD Coincidence signal No.1 reset command	Y0	Y8

#### ■Operation timing

The command is valid as long as this signal is on.

#### CH1 Preset command

This signal is turned on to execute the preset function.

#### Device number

The following table shows the device number of this output signal.

Signal name	CH1	CH2
CH□ Preset command	Y1	Y9

#### ■Operation timing

The command is valid at the rising edge of this signal (turned off and on).

#### CH1 Coincidence signal enable command

This signal is turned on to output the statuses of CH1 Counter value coincident (point No.1) (X2) and CH1 Counter value coincident (point No.2) (X6) to the external terminal.

#### Device number

The following table shows the device number of this output signal.

Signal name	CH1	CH2
CH□ Coincidence signal enable command	Y2	YA

#### Operation timing

The command is valid as long as this signal is on.

#### CH1 Down count command

- This signal is turned on to count down pulses in the 1-phase pulse input mode. (The command is invalid in the 2-phase pulse input mode.)
- The module counts down pulses when the B phase pulse input or this signal is turned on.
- For counting up pulses, check that the B phase pulse input and this signal are off.

#### Device number

The following table shows the device number of this output signal.

Signal name	CH1	CH2
CHD Down count command	Y3	YB

#### ■Operation timing

The command is valid as long as this signal is on.

#### CH1 Count enable command

- The status of Y4 in the pulse count mode is shown.
- This signal is turned on to count pulses.

#### Device number

The following table shows the device number of this output signal.

Signal name	CH1	CH2
CH□ Count enable command	Y4	YC

#### ■Operation timing

The command is valid as long as this signal is on.

#### CH1 External preset detection reset command

This signal is turned on to reset CH1 External preset request detection (X4).

#### Device number

The following table shows the device number of this output signal.

Signal name	CH1	CH2
CHD External preset detection reset command	Y5	YD

#### ■Operation timing

The command is valid as long as this signal is on.

#### CH1 Counter function selection start command

- The status of Y6 in the pulse count mode is shown.
- · This signal is turned on to execute the counter function selection.

#### Device number

The following table shows the device number of this output signal.

Signal name	CH1	CH2
CHD Counter function selection start command	Y6	YE

#### Operation timing

The operation timing differs depending on the function used.

Function	Timing to become valid
Latch counter function	At the rising edge of the signal (turned off and on)
Sampling counter function	
Count disable function	While the signal is on
Cycle pulse counter function	

#### CH1 PWM output start command (PWM output)

- The status of Y6 in the PWM output mode is shown.
- This signal is turned on to execute the PWM output.

#### Device number

The following table shows the device number of this output signal.

Signal name	CH1	CH2
CHD PWM output start command (PWM output)	Y6	YE

#### ■Operation timing

The command is valid as long as this signal is on.

#### CH1 Pulse measurement start command (pulse measurement)

- The status of Y6 in pulse measurement mode is shown.
- This signal is turned on to execute the pulse measurement.

#### Device number

The following table shows the device number of this output signal.

Signal name	CH1	CH2
CH□ Pulse measurement start command (pulse	Y6	YE
measurement)		

#### ■Operation timing

The command is valid as long as this signal is on.

#### CH1 Coincidence signal No.2 reset command

This signal is turned on to reset CH1 Counter value coincident (point No.2) (X6).

#### ■Device number

The following table shows the device number of this output signal.

Signal name	CH1	CH2
CH□ Coincidence signal No.2 reset command	Y7	YF

#### ■Operation timing

The command is valid as long as this signal is on.

## Appendix 3 Buffer Memory Areas

## List of buffer memory addresses

The following table lists the buffer memory addresses of the high-speed counter module. For details on the buffer memory addresses, refer to the following.

Page 62 Details of buffer memory addresses

Point P

Do not write any data to the system area or the area whose data type is monitor in the buffer memory. Writing any data in those areas may cause a malfunction.

Address		Name	Default value	Data type	Auto refresh
Decimal (he)	kadecimal)	Name	Delault value		Auto refresh
CH1	CH2	_			
0 (0H)	32 (20H)	CHD Preset value setting (L)	0	Setting	×
1 (1H)	33 (21H)	CH Preset value setting (H)	0	Setting	×
2 (2H)	34 (22H)	CH Present value (L)	0	Monitor	0
3 (3H)	35 (23H)	CHD Present value (H)	0	Monitor	0
4 (4H)	36 (24H)	CH <sup>II</sup> Coincidence output point No.1 setting (L)	0	Setting	×
5 (5H)	37 (25H)	CH Coincidence output point No.1 setting (H)	0	Setting	×
6 (6H)	38 (26H)	CHD Coincidence output point No.2 setting (L)	0	Setting	×
7 (7H)	39 (27H)	CH <sup>□</sup> Coincidence output point No.2 setting (H)	0	Setting	×
8 (8H)	40 (28H)	CH Overflow detection	0	Monitor	0
9 (9H)	41 (29H)	CHD Counter function selection setting	0	Setting	×
10 (0AH)	42 (2AH)	CHD Sampling/cycle time setting	0	Setting	×
11 (0BH)	43 (2BH)	CHD Sampling/cycle counter flag	0	Monitor	0
12 (0CH)	44 (2CH)	CHD Latch count value (L)	0	Monitor	0
13 (0DH)	45 (2DH)	CH□ Latch count value (H)	0	Monitor	0
14 (0EH)	46 (2EH)	CHD Sampling count value (L)	0	Monitor	0
15 (0FH)	47 (2FH)	CHD Sampling count value (H)	0	Monitor	0
16 (10H)	48 (30H)	CHD Cycle pulse count previous value (L)	0	Monitor	0
17 (11H)	49 (31H)	CHD Cycle pulse count previous value (H)	0	Monitor	0
18 (12H)	50 (32H)	CHD Cycle pulse count current value (L)	0	Monitor	0
19 (13H)	51 (33H)	CHD Cycle pulse count current value (H)	0	Monitor	0
20 (14H)	52 (34H)	CHD Ring counter lower limit value setting (L)	0	Setting	×
21 (15H)	53 (35H)	CH□ Ring counter lower limit value setting (H)	0	Setting	×
22 (16H)	54 (36H)	CHD Ring counter upper limit value setting (L)	0	Setting	×
23 (17H)	55 (37H)	CHD Ring counter upper limit value setting (H)	0	Setting	×
24 (18H)	56 (38H)	CH□ Cycle pulse count difference value (LL)	0	Monitor	0
25 (19H)	57 (39H)	CHD Cycle pulse count difference value (LH)	0	Monitor	0
26 (1AH)	58 (3AH)	CHD Cycle pulse count difference value (HL)	0	Monitor	0
27 (1BH)	59 (3BH)	CH□ Cycle pulse count difference value (HH)	0	Monitor	0
28 (1CH)	60 (3CH)	CHD Counter function update flag	0	Monitor	0
29 (1DH)	61 (3DH)	CHD Signal monitor	Depends on external signal status	Monitor	0
30 (1EH)	62 (3EH)	CHD Synchronization latch count value (L)	0	Monitor	0
31 (1FH)	63 (3FH)	CHD Synchronization latch count value (H)	0	Monitor	0
64 to 255 (40H	to FFH)	System area	-	-	—
256 (100H)	272 (110H)	CH□ PWM output cycle time setting (L)	FFFFH	Control	×
257 (101H)	273 (111H)	CH□ PWM output cycle time setting (H)	7FFFH	Control	×
258 (102H)	274 (112H)	CH□ PWM output ON time setting 1 (L)	0	Control	×
259 (103H)	275 (113H)	CH□ PWM output ON time setting 1 (H)	0	Control	×
260 (104H)	276 (114H)	CH□ PWM output ON time setting 2 (L)	0	Control	×

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Address Decimal (hexadecimal)		Name	Default value	Data type	Auto refresh
CH1	CH2				
261 (105H)	277 (115H)	CH□ PWM output ON time setting 2 (H)	0	Control	×
262 to 271 (106H to 10FH)	278 to 287 (116H to 11FH)	System area	—	—	—
288 to 511 (120H	I to 1FFH)	System area	—	—	—
512 (200H)	528 (210H)	CHD Pulse measurement section setting	0	Setting	×
513 (201H)	529 (211H)	System area	—	—	—
514 (202H)	530 (212H)	CH□ Pulse under-measurement flag	0	Monitor	0
515 (203H)	531 (213H)	CHD Measured pulse value update flag	0	Monitor	0
516 (204H)	532 (214H)	CHD Measured pulse value (L)	0	Monitor	0
517 (205H)	533 (215H)	CH□ Measured pulse value (H)	0	Monitor	0
518 (206H)	534 (216H)	CH Synchronization measured pulse value (L)	0	Monitor	0
519 (207H)	535 (217H)	CHD Synchronization measured pulse value (H)	0	Monitor	0
520 to 527 (208H to 20FH)	536 to 544 (218H to 21FH)	System area	—	—	—

### Details of buffer memory addresses

#### Point P

This section describes the I/O numbers (X/Y), buffer memory addresses, and external I/O terminals for CH1. To check the I/O numbers (X/Y) for CH2, refer to the following.

Page 54 List of I/O signals

To check the buffer memory addresses for CH2, refer to the following.

Page 60 List of buffer memory addresses

#### CH1 Preset value setting

- A preset value is stored in this area.
- The setting range is between -2147483648 and 2147483647 (32-bit signed binary value).

#### ■Buffer memory address

The following shows the buffer memory address of this area.

Buffer memory address name	CH1	CH2
CH□ Preset value setting	0 to 1	32 to 33

#### CH1 Present value

- · The present counter value is stored in this area.
- The range of the stored value is between -2147483648 and 2147483647 (32-bit signed binary value).

#### ■Buffer memory address

The following shows the buffer memory address of this area.

Buffer memory address name	CH1	CH2
CH□ Present value	2 to 3	34 to 35

#### CH1 Coincidence output point No.1 setting

• The setting value of the coincidence output point No.1 for comparison with the present counter value is stored in this area.

• The setting range is between -2147483648 and 2147483647 (32-bit signed binary value).

#### ■Buffer memory address

The following shows the buffer memory address of this area.

Buffer memory address name	CH1	CH2
CH□ Coincidence output point No.1 setting	4 to 5	36 to 37

#### CH1 Coincidence output point No.2 setting

• The setting value of the coincidence output point No.2 for comparison with the present counter value is stored in this area.

• The setting range is between -2147483648 and 2147483647 (32-bit signed binary value).

#### Buffer memory address

Buffer memory address name	CH1	CH2
CH□ Coincidence output point No.2 setting	6 to 7	38 to 39

#### **CH1 Overflow detection**

- When the counter type is set to linear counter in the pulse count mode, or when the pulse measurement mode is set, the overflow status of the counter is stored in this area.
- Either of the following values is stored based on the overflow status.

Status	Stored value
No overflow detected	0
Overflow detected	1

#### ■Buffer memory address

The following shows the buffer memory address of this area.

Buffer memory address name	CH1	CH2
CH□ Overflow detection	8	40

#### CH1 Counter function selection setting

· A value to select the counter function is stored in this area.

• The following table shows the setting value for each function.

Counter function selection	Setting value
Count disable function	0
Latch counter function	1
Sampling counter function	2
Cycle pulse counter function	3

#### ■Buffer memory address

The following shows the buffer memory address of this area.

Buffer memory address name	CH1	CH2	
CH□ Counter function selection setting	9	41	

#### CH1 Sampling/cycle time setting

A time value for the sampling counter function or cycle pulse counter function is stored in this area.

#### Setting range

- The setting range is between 1 and 65535 (16-bit unsigned binary value).
- The unit of time differs depending on the counting speed setting.

Counting speed setting	Time unit
500kpps or less	×10 ms
1Mpps or more	×1 ms

Ex.

When 500kpps is set in the counting speed setting and 420 is set in CH1 Sampling/cycle time setting (Un\G10), the function operates at 4200ms ( $420 \times 10$ ms).

#### Buffer memory address

Buffer memory address name	CH1	CH2
CH□ Sampling/cycle time setting	10	42

#### CH1 Sampling/cycle counter flag

- When the sampling counter function or cycle pulse counter function is selected, the operating status of the selected function is stored in this area.
- Either of the following values is stored based on the operating status of the function.

Operating status	Stored value
Function stopped	0
Function being executed	1

#### ■Buffer memory address

The following shows the buffer memory address of this area.

Buffer memory address name	CH1	CH2
CH□ Sampling/cycle counter flag	11	43

#### CH1 Latch count value

- The latch count value is stored in this area during the execution of the latch counter function.
- The range of the stored value is between -2147483648 and 2147483647 (32-bit signed binary value).

#### ■Buffer memory address

The following shows the buffer memory address of this area.

Buffer memory address name	CH1	CH2
CH□ Latch count value	12 to 13	44 to 45

#### Point *P*

Although the storage addresses differ between the latch count value and cycle pulse count current value, the stored values are always the same (updated simultaneously). Therefore, when the latch counter function or cycle pulse counter function is executed, the latch count value and cycle pulse count current value do not hold their previous values.

#### CH1 Sampling count value

- The sampling count value is stored in this area during the execution of the sampling counter function.
- The range of the stored value is between -2147483648 and 2147483647 (32-bit signed binary value).

#### ■Buffer memory address

The following shows the buffer memory address of this area.

Buffer memory address name	CH1	CH2
CHD Sampling count value	14 to 15	46 to 47

#### CH1 Cycle pulse count previous value

• The cycle pulse count previous value is stored in this area during the execution of the cycle pulse counter function.

• The range of the stored value is between -2147483648 and 2147483647 (32-bit signed binary value).

#### Buffer memory address

Buffer memory address name	CH1	CH2
CH□ Cycle pulse count previous value	16 to 17	48 to 49

#### CH1 Cycle pulse count current value

- The cycle pulse count current value is stored in this area during the execution of the cycle pulse counter function.
- The range of the stored value is between -2147483648 and 2147483647 (32-bit signed binary value).

#### ■Buffer memory address

The following shows the buffer memory address of this area.

Buffer memory address name	CH1	CH2
CH□ Cycle pulse count current value	18 to 19	50 to 51

Point P

Although the storage addresses differ between the latch count value and cycle pulse count current value, the stored values are always the same (updated simultaneously). Therefore, when the latch counter function or cycle pulse counter function is executed, the latch count value and cycle pulse count current value do not hold their previous values.

#### CH1 Ring counter lower limit value setting

- When the counter type is set to ring counter, the lower limit value of the count range is stored in this area.
- The setting range is between -2147483648 and 2147483647 (32-bit signed binary value).

#### ■Buffer memory address

The following shows the buffer memory address of this area.

Buffer memory address name	CH1	CH2
CHD Ring counter lower limit value setting	20 to 21	52 to 53

#### CH1 Ring counter upper limit value setting

- When the counter type is set to ring counter, the upper limit value of the count range is stored in this area.
- The setting range is between -2147483648 and 2147483647 (32-bit signed binary value).

#### Buffer memory address

The following shows the buffer memory address of this area.

Buffer memory address name	CH1	CH2
CH□ Ring counter upper limit value setting	22 to 23	54 to 55

#### CH1 Cycle pulse count difference value

- The difference value between the cycle pulse count previous value and cycle pulse count current value is stored in this area during the execution of the cycle pulse counter function.
- The range of the stored value is between -8589934592 and 8589934591 (64-bit signed binary value).

#### ■Buffer memory address

Buffer memory address name	CH1	CH2
CH□ Cycle pulse count difference value	24 to 27	56 to 59

#### CH1 Counter function update flag

The value indicating whether the buffer memory areas for the selected counter function are updated or not is stored in this area. When the buffer memory areas are updated, 1H is stored. When the buffer memory areas are not updated, 0H is stored.

Counter function selection	Buffer memory area
Latch counter function	CH1 Latch count value (Un\G12 to Un\G13)
Sampling counter function	CH1 Sampling count value (Un\G14 to Un\G15)
Cycle pulse counter function	CH1 Cycle pulse count previous value (Un\G16 to Un\G17)
	CH1 Cycle pulse count current value (Un\G18 to Un\G19)
	CH1 Cycle pulse count difference value (Un\G24 to Un\G27)

The buffer memory areas shown above are updated without resetting this area. To check the update status once again, reset this area by the following resetting method.

#### ■Resetting method

Write 0H in this area using a program and reset this area.

Point P

When this area is used as an interlock, consider the scan time. Depending on the program used, immediately after 0H is written by a program, either of the buffer memory areas shown above may be updated, and 1H may be stored in this area.

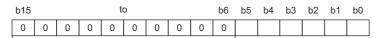
#### ■Buffer memory address

The following shows the buffer memory address of this area.

Buffer memory address name	CH1	CH2
CH□ Counter function update flag	28	60

#### **CH1 Signal monitor**

The input statuses of the preset input terminal for the external input, function start input terminal, A phase input terminal, and B phase input terminal, as well as the output statuses of the coincidence output point No.1 terminal and coincidence output point No.2 terminal for the external output are stored.



Bit data from b15 to b6 are fixed to 0.

Bit	Stored status	Stored value
b5	The output status of the coincidence output point No.1 terminal is stored.	• ON (1) • OFF (0)
b4	The output status of the coincidence output point No.2 terminal is stored.	
b3	The pulse input status to the phase A pulse input terminal is stored.	
b2	The pulse input status to the phase B pulse input terminal is stored.	
b1	The input status to the preset input terminal is stored.	
b0	The input status to the function start input terminal is stored.	

#### ■Buffer memory address

Buffer memory address name	CH1	CH2
CHD Signal monitor	29	61

#### CH1 Synchronization latch count value

- The present counter value is latched by synchronizing with the fall of the synchronization signal during the execution of the synchronization control function (during the inter-module synchronization control).
- · In this area, the present counter value is latched only in the pulse count mode.
- The range of the stored value is between -2147483648 and 2147483647 (32-bit signed binary value).

#### ■Buffer memory address

The following shows the buffer memory address of this area.

Buffer memory address name	CH1	CH2
CHD Synchronization latch count value	30 to 31	62 to 63

#### CH1 PWM output cycle time setting

- · Set the time of one cycle for the PWM output.
- The setting range is between 0 and 2147483647 (in increments of 0.1μs).

#### ■Buffer memory address

The following shows the buffer memory address of this area.

Buffer memory address name	CH1	CH2
CH□ PWM output cycle time setting	256 to 257	272 to 273

#### CH1 PWM output ON time setting 1

- Set the ON time of the PWM output of the PWM output point No.1 terminal (EQU1).
- The setting range is between 0 and 2147483647 (in increments of 0.1μs). In addition, set a value that is equal to or smaller than the setting value in CH□ PWM output cycle time setting (Un\G256 to Un\G257, Un\G272 to Un\G273) in this area.

#### ■Buffer memory address

The following shows the buffer memory address of this area.

Buffer memory address name	CH1	CH2
CH□ PWM output cycle time setting	258 to 259	274 to 275

#### CH1 PWM output ON time setting 2

- Set the ON time of the PWM output of the PWM output point No.2 terminal (EQU2).
- The setting range is between 0 and 2147483647 (in increments of 0.1μs). In addition, set a value that is equal to or smaller than the setting value in CH□ PWM output cycle time setting (Un\G256 to Un\G257, Un\G272 to Un\G273) in this area.

#### ■Buffer memory address

The following shows the buffer memory address of this area.

Buffer memory address name	CH1	CH2
CH□ PWM output cycle time setting	260 to 261	276 to 277

#### CH1 Pulse measurement section setting

Set the pulse measurement section of the pulse measurement function.

Pulse measurement section setting	Setting value
ON width	0
OFF width	1
From the rising edge of the pulse to the rising edge of the next pulse	2
From the falling edge of the pulse to the falling edge of the next pulse	3

#### ■Buffer memory address

The following shows the buffer memory address of this area.

Buffer memory address name	CH1	CH2
CH□ Pulse measurement section setting	512	528

#### CH1 Pulse under-measurement flag

- The value indicating whether the pulse is being measured in the pulse measurement function is stored in this area.
- When the pulse is being measured, 1H is stored. When the pulse is not being measured, 0H is stored.

#### ■Buffer memory address

The following shows the buffer memory address of this area.

Buffer memory address name	CH1	CH2
CH□ Pulse under-measurement flag	514	530

#### CH1 Measured pulse value update flag

- The update status of CH1 Measured pulse value (Un\G516 to Un\G517) is stored. When the buffer memory areas are updated, 1H is stored. When the buffer memory areas are not updated, 0H is stored.
- The buffer memory areas shown above are updated without resetting this area. To check the update status once again, reset this area by the following resetting method.

#### ■Resetting method

Write 0H in this area using a program and reset this area.

Point P

When this area is used as an interlock, consider the scan time. Depending on the program used, immediately after 0H is written by a program, either of the buffer memory areas shown above may be updated, and 1H may be stored in this area.

#### ■Buffer memory address

The following shows the buffer memory address of this area.

Buffer memory address name	CH1	CH2
CH□ Measured pulse value update flag	515	531

#### CH1 Measured pulse value

• The measured value of the ON width or OFF width of the pulse input to the function start input terminal is stored.

• The measurement range is between 2000 and 2147483647 (in increments of 0.1µs).

#### ■Buffer memory address

The following shows the buffer memory address of this area.

Buffer memory address name	CH1	CH2
CH□ Measured pulse value	516 to 517	532 to 533

#### CH1 Synchronization measured pulse value

- The measured pulse value is latched by synchronizing with the rise of the synchronization signal during the execution of the synchronization control function (during the inter-module synchronization control).
- In this area, the measured pulse value is latched only in the pulse measurement mode.
- The range of the stored value is between 2000 and 2147483647 (in increments of 0.1μs).

#### Buffer memory address

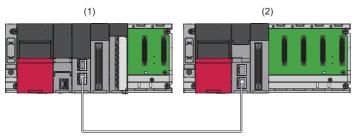
Buffer memory address name	CH1	CH2
CH□ Synchronization measured pulse value	518 to 519	534 to 535

# Appendix 4 Operation Examples of When the Remote Head Module Is Mounted

This section describes operation examples of when the remote head module is mounted.

## System configuration example

The following system configuration is used to explain an example of operation.



- (1) Master station (Network number 1, station number 0)
- Power supply module: R61P
- CPU module: R04CPU
- Master/local module: RJ71GF11-T2 (Start I/O number: 0000H to 001FH)
- Input module: RX41C4 (Start I/O number: 0020H to 003FH)
- Output module: RX10R2 (Start I/O number: 0040H to 004FH)

(2) Intelligent device station (Network number 1, station number 1)

- Power supply module: R61P
- Remote head module: RJ72GF15-T2
- High-speed counter module: RD62P2 (Start I/O number: 0000H to 000FH\*1)

\*1 In the RX/RY setting of the master station, set 1000H to 100FH as the start I/O number of the high-speed counter module.

## Setting in the master station

Connect the engineering tool to the CPU module of the master station and set parameters.

- **1.** Create the project with the following settings.
- ∛ [Project] ⇒ [New]

New	×
Series	📲 RCPU 🔻
<u>T</u> ype	12 R04 🔻
Mode	<b></b>
Program Language	Ladder 🔻
	OK Cancel

2. Configure the setting to use the module labels and add the module labels of the CPU module.

MELSOFT GX Works3		
i	Add a module. [Module Name] R04CPU [Start I/O No.] 3E00	
Module Setting		Setting Change
Mo	dule Label:Use	*
		Ŧ
Do 📃	Not Show this Dialog Again	ОК

- **3.** Add the master/local module with the following settings.
- (Navigation window] ⇒ [Parameter] ⇒ [Module Information] ⇒ Right-click ⇒ [Add New Module]

	Add New Module				
		Module Selection			
		Module Type	🚵 Network Module 📃 🔽		
		Module Name	RJ71GF11-T2		
		Station Type	Master Station		
	Advanced Settings Mounting Position				
		Mounting Base	Main Base		
		Mounting Slot No.	0		
		Start I/O No. Specification	Not Set 💌		
		Start I/O No.	0000 H		
		Number of Occupied Points per 1	32 Points		
Number of Occupied Points per 1 Slot Display occupied points of selection module.					
	OK Cancel				

4. Configure the setting to use the module labels and add the module labels of the master/local module.

MELS	OFT GX Works3	
(	Add a module. [Module Name] RJ71GF11-T2 [Start I/O No.] 0000	
	Module Setting	Setting Change
	Module Label:Use	*
	] Do Not Show this Dialog Again	ОК

- 5. Set "Required Settings" of "Module Parameter" of the master/local module as shown below.
- [Navigation window] ⇒ [Parameter] ⇒ [Module Information] ⇒ [RJ71GF11-T2] ⇒ [Module Parameter] ⇒ [Required Settings]

Item	Setting
Station Type Station Type	
Station Type	Master Station
😑 Network Number	
Network Number	1
📮 Station Number	
Setting Method	Parameter Editor
Station No.	0
😑 Parameter Setting Method	
Setting Method of Basic/Application Settings	Parameter Editor

- 6. Set "Network Configuration Settings" of "Module Parameter" of the master/local module as shown below.
- [Navigation window] ⇒ [Parameter] ⇒ [Module Information] ⇒ [RJ71GF11-T2] ⇒ [Module Parameter] ⇒ [Basic Settings]
   ⇒ [Network Configuration Settings]

| No.     Model name     STA*     Station Type     Points     Start     End     Switching Monitoring Target Station     Points     Communication     Pades       Image: Communication     0     Master Station     Image: Communication     Image: Communic | RWW/RWr Setting         Reserved/Error Invalid Station/System         Pairing         Network Synchronous         Alias         Comment         Station-specific mode setting           sints         Start         End         Switching Monitoring Target Station         Pairing         Network Synchronous         Alias         Comment         Station-specific mode setting | No.     Model Name     STA#     Station Type     RX/RY Setting     RWw/RW/rsetting       0     Host Station     0     Master Station     0     Master Station  
   
   
   
   
  | No.       Model Name       STA#       Station Type       RX/RY Setting<br>Points       Rt End       Reserved/Error Invalid Station/System<br>Switching Monitoring Target Station       Pairing       Network Synchronous<br>Communication       Alas       Comment       Station-spec<br>mode setting         1       R372GF15-12       1       Intelligent Device Station       255       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spec         STA#1       STA#1       Station       Station       Station       Station-spec       Station-spec   
   
   
  | No.       Model Name       STA#       Station Type       RX/RY Setting       Reserved/Error Invald Station/System       Pairing       Network Synchronous       Alas       Comment       Station-specing         10       0       Host Station       0       Master Station       Master Station <td< th=""><th>No.       Model Name       STA#       Station Type       RX/RY Setting       Reserved/Error Invald Station/System       Pairing       Network Synchronous       Alas       Comment       Station-specing         10       0       Host Station       0       Master Station       Master Station       <td< th=""><th>No.       Model Name       STA#       Station Type       RX/RXY Setting<br/>Points       Rewr<br/>End       Reserved/Error Invalid Station/System<br/>Switching Monitoring Target Station       Paining       Network Synchronous<br/>Communication       Alas       Comment       Station-spec<br/>mode setting         1       RJ72GF15-T2       1       Intelligent Device Station       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  Station-spec           10         0         Moster Station         0         Moster Station         0         Static         End         Points         Start         End         Switching Monitoring Target Station         0         Alas         Comment         Station-spec           10         1         RJ72GF15-12         1         Intelligent Device Station         256         0000         00FF         No Setting         Asynchronous         Alas         Comment         Station-spec</th><th>No.         Model Name         STA#         Station Type         RX/RY Setting<br/>Points         Rtw/RWr Setting<br/>Points         Reserved/Error Invalid Station/System<br/>Switching Monitoring Target Station         Pairing         Network Synchronous<br/>Communication         Alias         Comment         Station-spe<br/>mode setting           1         R1/72GF15-T2         1         Intelligent Device Station         256         0000         00FF         No Setting         Asynchronous         Alias         Comment         Station-spe<br/>mode setting</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting       Rewr/R/Wr Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectro         1       No.       Model Name       STA#       Station       256       0000       00FF       No       No       Model Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectro         1       N172GF15-12       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Asynchronous</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting       RWW/RWr Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectro         1       No.       Model Name       STA#       Station       0       Master Station       0       Master Station       0       Master Station       0       Master Station       0       Model Name       Station - St</th><th>No.         Model Name         STA#         Station Type         RX/RY Setting         Rewr/R/KY Setting         Reserved/Error Invalid Station/System         Pairing         Network Synchronous         Allas         Comment         Station-spectro           Model Name         STA#         Station Type         Points         Start         End         Points         Start         End         Switching Monitoring Target Station         Pairing         Network Synchronous         Allas         Comment         Station-spectro           Model Name         0         Host Station         0         Master Station         0         Station -spectro         Master Station         0         0         0         Figure 3         0         0         Figure 3         0         0         0         0         Figure 3         0         0         0</th><th>No.       Model Name      
STA#       Station Type       RX/RY Setting       RWW/RWr Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectro         1       No.       Model Name       STA#       Station       0       Master Station       0       Master Station       0       Master Station       0       Master Station       0       Model Name       Station - St</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting<br/>Points       RW/R/Wr Setting<br/>For Two Station/System       Paining       Network Synchronous<br/>Communication       Alas       Comment       Station-spectro<br/>mode setting         0       Host Station       0       Master Station       0       Master Station       255       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spectro<br/>mode setting         1       R.172SF15-T2       1       Intelligent Device Station       255       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spectro<br/>mode setting         STA#1       STA#1       Station Type       Station 255       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spectro<br/>mode setting</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting       Rewred/Error Invalid Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectro         0       Host Station       0       Master Station       0<th>No.       Model Name       STA#       Station Type       RV/kY Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectrope         10       Host Station       0       Master Station       0       Master Station       256       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spectrope         11       RJ72GF15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spectrope         11       RJ72GF15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Asynchronous       Station-spectrope         11       RJ72GF15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Station-spectrope         12       STA#1       Station       256       0000       00FF       No Setting       Asynchronous       Station-spectrope</th><th>No.         Model Name         STA#         Station Type         RX/RY Setting<br/>Points         Rtw/RWr Setting<br/>Points         Reserved/Error Invalid Station/System<br/>Switching Monitoring Target Station         Pairing         Network Synchronous<br/>Communication         Alias         Comment         Station-spe<br/>mode setting           1         R1/72GF15-T2         1         Intelligent Device Station         256         0000         00FF         No Setting         Asynchronous         Alias         Comment         Station-spe<br/>mode setting</th><th>No.         Model Name         STA#         Station Type         RX/RY Setting<br/>Points         Rtw/RWr Setting<br/>Points         Reserved/Error Invalid Station/System<br/>Switching Monitoring Target Station         Pairing         Network Synchronous<br/>Communication         Alias         Comment         Station-spe<br/>mode setting           1         R1/72GF15-T2         1         Intelligent Device Station         256         0000         00FF         No Setting         Asynchronous         Alias         Comment         Station-spe<br/>mode setting</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting<br/>Points       RW/R/Wr Setting<br/>For Twald Station/System<br/>Switching Monitoring Target Station       Paining       Network Synchronous<br/>Communication       Alias       Comment       Station-spe<br/>mode setting         0       Host Station       0       Master Station       0       Master Station       0       Model Name       Alias       Comment       Station-spe<br/>mode setting         1       RJ72GF15-T2       1       Intelligent Device Station       255       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spe<br/>mode setting         STA#1       STA#1       STA#1       Station       255       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spe<br/>mode setting</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting<br/>Points       RW/RWr Setting<br/>End       Reserved/Error Invalid Station/System<br/>Switching Monitoring Target Station       Paining       Network Synchronous<br/>Communication       Alias       Comment       Station-spec<br/>mode setting         0       Host Station       0       Master Station       0       Master Station       0       Master Station       0       Master Station       0       Model Name       1       RJ72GF15-T2       1       Intelligent Device Station       255       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spec         STA#1       STA#1       Station       255       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spec</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting<br/>Points       RW/RWr Setting<br/>End       Reserved/Error Invalid Station/System<br/>Switching Monitoring Target Station       Paining       Network Synchronous<br/>Communication       Alias       Comment       Station-spec<br/>mode setting         0       Host Station       0       Master Station       0       Master Station       0       Alias       Comment       Station-spec<br/>mode setting         1       R372GF15-T2       1       Intelligent Device Station       255       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spec<br/>mode setting</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting<br/>Points       RW/R/Wr Setting<br/>For Trade Station/System<br/>Switching Monitoring Target Station       Paining       Network Synchronous<br/>Communication       Alias       Comment       Station-spec<br/>mode setting         0       Host Station       0       Master Station       0       Master Station       0       Alias       Comment       Station-spec<br/>mode setting         1       R372GF15-T2       1       Intelligent Device Station       255       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spec         STA#1       STA#1       Station Type       255       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spec</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting<br/>Points       Rt End       Reserved/Error Invalid Station/System<br/>Switching Monitoring Target Station       Pairing       Network Synchronous<br/>Communication       Alas       Comment       Station-spec<br/>mode setting         1       R372GF15-12       1       Intelligent Device Station       255       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spec         STA#1       STA#1       Station       Station       Station       Station       Station-spec</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting       RWW/RWr Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Alias       Comment       Station-spectrom         1       R3/20F15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spectrom</th><th>No.         Model Name         STA#         Station Type         RX/RY Setting<br/>Points         Rtw/RWr Setting<br/>Points         Reserved/Error Invald Station/System<br/>Switching Monitoring Target Station         Pairing         Network Synchronous<br/>Communication         Alias         Comment         Station-spec<br/>mode setting           1         R1/72GF15-T2         1         Intelligent Device Station         256         0000         00FF         No Setting         Asynchronous         Alias         Comment         Station-spec</th><th>No.         Model Name         STA#         Station Type         RX/RY Setting<br/>Points         Rtw/RWr Setting<br/>Points         Reserved/Error Invald Station/System<br/>Switching Monitoring Target Station         Pairing         Network Synchronous<br/>Communication         Alias         Comment         Station-spec<br/>mode setting           1         R1/72GF15-T2         1         Intelligent Device Station         256         0000         00FF         No Setting         Asynchronous         Alias         Comment         Station-spec</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Allas       Comment       Station-spectro         1       No.       Model Name       0       Moster Station       0       Model Name       Static End       Points       Start       End       Points       Start       End       Switching Monitoring Target Station       Allas       Comment       Station-spectro         1       RJ72GF15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Asynchronous       Image: Comment Station-spectro</th><th>No.      
Model Name       STA#       Station Type       RX/RY Setting       Rewr/R/Wr Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectro         1       No.       Model Name       STA#       Station       256       0000       00FF       No       No       Model Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectro         1       N172GF15-12       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Asynchronous</th><th>No.         Model Name         STA#         Station Type         RX/RY Setting         Reserved/Error Invalid Station/System         Pairing         Network Synchronous         Alas         Comment         Station spectrum           1         N3/2GF15-T2         1         Intelligent Device Station         256         0000         00FF         No Setting         Asynchronous         Alas         Comment         Station spectrum</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectro         1       No.       Model Name       STA#       Station       V       V       V       RV/RV Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectro         V       0       Host Station       0       Moster Station       0       V       V       Model Name       Station-System       Pairing       Network Synchronous       Alas       Comment       Station-spectro         V       0       Host Station       0       Moster Station       0       V</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting       Rewr/R/Wr Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectro         10       Host Station       0       Master Station       0       0       Figure Station       0       Master Station       0       Master Station       0       Master Station       0       Master Station       0       0       Figure Station       0       Master Station       0       Master Station       0       Master Station       0       Master Station       0       0       Figure Station       0       0       Figure Station       0       0       Figure Station       0       0       Figure Station       0       0       Figure Station       0       0       0       Figure Station       0       0       Figure Station       0       0       0       Figure Station       0       0       F</th></th></td<></th></td<> | No.       Model Name       STA#       Station Type       RX/RY Setting       Reserved/Error Invald Station/System       Pairing       Network Synchronous       Alas       Comment       Station-specing         10       0       Host Station       0       Master Station       Master Station <td< th=""><th>No.       Model Name       STA#       Station Type       RX/RXY Setting<br/>Points       Rewr<br/>End       Reserved/Error Invalid Station/System<br/>Switching Monitoring Target Station       Paining       Network Synchronous<br/>Communication       Alas       Comment       Station-spec<br/>mode setting         1       RJ72GF15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spec         STA#1       Station       256       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spec         STA#1       Station       256       0000       00FF       No Setting       Asynchronous       Asynchronous       Asynchronous</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting<br/>Points       Rt       Reserved/Error Invalid Station/System<br/>Switching Monitoring Target Station       Paining       Network Synchronous<br/>Communication       Alas       Comment       Station-spec<br/>mode setting         1       RJ7ZGF15-12       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spec         STA#1       Station       256       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spec         STA#1       Station       256       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spec         STA#1       Station       256       0000       00FF       No Setting       Asynchronous       Asynchronous       Station-spec</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting       Reword/Error Invalid Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectrope         10       0       Host Station       0       Master Station       0       Model Name       0       Master Station       0       Model Name       0       Master Station       0       Master Station       0       Master Station       0       Model Name       0       Master Station       0       Model Name       No.       No.</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spe         Image: Distribution of the state of the st</th><th>No.       Model Name       STA#       Station Type       RV/kY Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Alias       Comment       Station-spectrom         10       0       Host Station       0       Master Station       0       Model Name       0       Master Station       0       0       Master Station       0       Master Station       0       Master Station       0       0       0       FF       0       00       0FF       No Setting       Asynchronous       0</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Alias       Comment       Station-spectro         10       Host Station       0       Master Station       0       Master Station       256       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spectro         11       R.JZ2GF15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Image: Station       Image: Statio</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting       Rewrid/Error Invalid Station/System       Pairing       Network Synchronous       Alias       Comment       Station-spectrom         10       Host Station       0       Master Station       0       Master Station       256       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spectrom         11       R.JZ2GF15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Asynchronous       Alias       Comment       Station-spectrom         11       R.JZ2GF15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Asynchronous       Station-spectrom         11       R.JZ2GF15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Station-spectrom         12       STA#1       Station       Station       Station       Station       Station-spectrom       Station-spectrom</th><th>No.       Model Name       STA#       Station Type       RV/kY Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectrope         10       Host Station       0       Master Station       0       Master Station       256       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spectrope         11       RJ72GF15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spectrope         11       RJ72GF15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Asynchronous       Station-spectrope         11       RJ72GF15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Station-spectrope         12       STA#1       Station       256       0000       00FF       No Setting       Asynchronous       Station-spectrope</th><th>No.       Model Name       STA#       Station Type       RV/kY Setting<br/>Points       Reserved/Error Invalid Station/System<br/>Switching Monitoring Target Station       Pairing       Network Synchronous<br/>Communication       Alias       Comment       Station-spectro<br/>mode setting         1       RJZ2GF15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spectro<br/>mode setting         STA#1       STA#1       Station       256       0000       00FF       No Setting       Asynchronous       Alias       Comment      
Station-spectro<br/>mode setting</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting<br/>Points       Rt End       Reserved/Error Invalid Station/System<br/>Switching Monitoring Target Station       Pairing       Network Synchronous<br/>Communication       Alas       Comment       Station-spec<br/>mode setting         1       R372GF15-12       1       Intelligent Device Station       255       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spec         STA#1       STA#1       Station       Station       Station       Station       Station-spec</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting<br/>Points       RW/RWr Setting<br/>For Invalid Station/System<br/>Switching Monitoring Target Station       Paining       Network Synchronous<br/>Communication       Alas       Comment       Station-spec<br/>mode setting         1       RJ72GF15-12       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spec         STA#1       Station       256       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spec         STA#1       Station       256       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spec</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting<br/>Points       RW/RWr Setting<br/>End       Reserved/Error Invalid Station/System<br/>Switching Monitoring Target Station       Pairing       Network Synchronous<br/>Communication       Alas       Comment       Station-spec<br/>mode setting         0       Host Station       0       Master Station       0       Master Station       0       Alas       Comment       Station-spec<br/>mode setting         1       R372GF15-T2       1       Intelligent Device Station       255       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spec         STA#1       STA#1       Station       255       0000       00FF       No Setting       Asynchronous       Asynchronous       Station-spec</th><th>No.       Model Name       STA#       Station Type       RX/RXY Setting<br/>Points       RX/RXY Setting<br/>For Tweld Station/System       Pairing       Network Synchronous<br/>Communication       Alas       Comment       Station-spe<br/>mode setting         1       R3/72GF15-12       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spe<br/>mode setting         Station       0       Master Station       256       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spe<br/>mode setting         1       R3/72GF15-12       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Asynchronous         Station       1       R3/72GF15-12       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous         Station       1       R3/72GF15-12       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       No</th><th>No.       Model Name       STA#       Station Type       RV/kY Setting<br/>Points       Reserved/Error Invalid Station/System<br/>Switching Monitoring Target Station       Pairing       Network Synchronous<br/>Communication       Alias       Comment       Station-spectro<br/>mode setting         1       RJZ2GF15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spectro<br/>mode setting         STA#1       STA#1       Station       256       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spectro<br/>mode setting</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting<br/>Points       Rtw/RW Setting<br/>For Twaid Station/System<br/>Switching Monitoring Target Station       Paining       Network Synchronous<br/>Communication       Alas       Comment       Station-spec<br/>mode setting         0       Host Station       0       Master Station       0       Master Station       0       Alas       Comment       Station-spec<br/>mode setting         1       R372GF15-T2       1       Intelligent Device Station       255       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spec         STA#1       Station Type       Station       255       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spec         STA#1       Station       255       0000       00FF       No Setting       Asynchronous       Asynchronous       Station-spec</th><th>No.       Model Name       STA#       Station Type       RX/RXY Setting<br/>Points       RX/RXY Setting<br/>For The Points       Reserved/Error Invalid Station/System<br/>Switching Monitoring Target Station       Paining       Network Synchronous<br/>Communication       Alias       Comment       Station-spectro<br/>mode setting         1       R172GF15-12       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spectro<br/>mode setting         STA#1       STA#1       Station       256       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spectro<br/>mode setting</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting<br/>Points       Rt End       Reserved/Error Invalid Station/System<br/>Switching Monitoring Target Station       Pairing       Network Synchronous<br/>Communication       Alas       Comment       Station-spec<br/>mode setting         1       R372GF15-12       1       Intelligent Device Station       255       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spec         STA#1       STA#1       Station       Station       Station       Station       Station-spec</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting<br/>Points       Rt End       Reserved/Error Invalid Station/System<br/>Switching Monitoring Target Station       Pairing       Network Synchronous<br/>Communication       Alas       Comment       Station-spec<br/>mode setting         1       R372GF15-12       1       Intelligent Device Station       255       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spec         STA#1       STA#1       Station       Station       Station       Station       Station-spec</th><th>No.         Model Name         STA#         Station Type         RX/RY Setting<br/>Points         Rtw/RWr Setting<br/>Points         Reserved/Error Invalid Station/System<br/>Switching Monitoring Target Station         Pairing         Network Synchronous<br/>Communication         Alias         Comment         Station-speci-<br/>mode setting           0         Host Station         0         Master Station         0         Master Station         0         Alias         Comment         Station-speci-<br/>mode setting           1         R.172GF15-T2         1         Intelligent Device Station         256         0000         00FF         No Setting         Asynchronous         Alias         Comment         Station-speci-<br/>mode setting</th><th>No.         Model Name         STA#         Station Type         RX/RY Setting<br/>Points         Rtw/RWr Setting<br/>Start         Reserved/Error Invalid Station/System<br/>Switching Monitoring Target Station         Pairing         Network Synchronous<br/>Communication         Alias         Comment         Station-spec<br/>mode setting           1         R1372GF15-T2         1         Intelligent Device Station         256         0000         00FF         No Setting         Asynchronous         Alias         Comment         Station-spec</th><th>No.         Model Name         STA#         Station Type         RX/RY Setting         Reserved/Error Invalid Station/System         Pairing         Network Synchronous         Alas         Comment         Station-spec           10         0         Moster Station         0         Moster Station         0         Static         End         Points         Start         End         Switching Monitoring Target Station         0         Alas         Comment         Station-spec           10         1         RJ72GF15-12         1         Intelligent Device Station         256         0000         00FF         No Setting         Asynchronous         Alas         Comment         Station-spec</th><th>No.         Model Name         STA#         Station Type         RX/RY Setting<br/>Points         Rtw/RWr Setting<br/>Points         Reserved/Error Invalid Station/System<br/>Switching Monitoring Target Station         Pairing         Network Synchronous<br/>Communication         Alias         Comment         Station-spe<br/>mode setting           1         R1/72GF15-T2         1         Intelligent Device Station         256         0000         00FF         No Setting         Asynchronous         Alias         Comment         Station-spe<br/>mode setting</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting       Rewr/R/Wr Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectro         1       No.       Model Name       STA#       Station       256       0000       00FF       No       No       Model Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectro         1       N172GF15-12       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Asynchronous</th><th>No.      
Model Name       STA#       Station Type       RX/RY Setting       RWW/RWr Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectro         1       No.       Model Name       STA#       Station       0       Master Station       0       Master Station       0       Master Station       0       Master Station       0       Model Name       Station - St</th><th>No.         Model Name         STA#         Station Type         RX/RY Setting         Rewr/R/KY Setting         Reserved/Error Invalid Station/System         Pairing         Network Synchronous         Allas         Comment         Station-spectro           Model Name         STA#         Station Type         Points         Start         End         Points         Start         End         Switching Monitoring Target Station         Pairing         Network Synchronous         Allas         Comment         Station-spectro           Model Name         0         Host Station         0         Master Station         0         Station -spectro         Master Station         0         0         0         Figure 3         0         0         Figure 3         0         0         0         0         Figure 3         0         0         0</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting       RWW/RWr Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectro         1       No.       Model Name       STA#       Station       0       Master Station       0       Master Station       0       Master Station       0       Master Station       0       Model Name       Station - St</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting<br/>Points       RW/R/Wr Setting<br/>For Two Station/System       Paining       Network Synchronous<br/>Communication       Alas       Comment       Station-spectro<br/>mode setting         0       Host Station       0       Master Station       0       Master Station       255       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spectro<br/>mode setting         1       R.172SF15-T2       1       Intelligent Device Station       255       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spectro<br/>mode setting         STA#1       STA#1       Station Type       Station 255       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spectro<br/>mode setting</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting       Rewred/Error Invalid Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectro         0       Host Station       0       Master Station       0<th>No.       Model Name       STA#       Station Type       RV/kY Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectrope         10       Host Station       0       Master Station       0       Master Station       256       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spectrope         11       RJ72GF15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spectrope         11       RJ72GF15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Asynchronous       Station-spectrope         11       RJ72GF15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Station-spectrope         12       STA#1       Station       256       0000       00FF       No Setting       Asynchronous       Station-spectrope</th><th>No.         Model Name         STA#         Station Type         RX/RY Setting<br/>Points         Rtw/RWr Setting<br/>Points         Reserved/Error Invalid Station/System<br/>Switching Monitoring Target Station         Pairing         Network Synchronous<br/>Communication         Alias         Comment         Station-spe<br/>mode setting           1         R1/72GF15-T2         1         Intelligent Device Station         256         0000         00FF         No Setting         Asynchronous         Alias         Comment         Station-spe<br/>mode setting</th><th>No.         Model Name         STA#         Station Type         RX/RY Setting<br/>Points         Rtw/RWr Setting<br/>Points         Reserved/Error Invalid Station/System<br/>Switching Monitoring Target Station         Pairing         Network Synchronous<br/>Communication         Alias         Comment         Station-spe<br/>mode setting           1         R1/72GF15-T2         1         Intelligent Device Station         256         0000         00FF         No Setting         Asynchronous         Alias         Comment         Station-spe<br/>mode setting</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting<br/>Points       RW/R/Wr Setting<br/>For Twald Station/System<br/>Switching Monitoring Target Station       Paining       Network Synchronous<br/>Communication       Alias       Comment       Station-spe<br/>mode setting         0       Host Station       0       Master Station       0       Master Station       0       Model Name       Alias       Comment       Station-spe<br/>mode setting         1       RJ72GF15-T2       1       Intelligent Device Station       255       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spe<br/>mode setting         STA#1       STA#1       STA#1       Station       255       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spe<br/>mode setting</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting<br/>Points       RW/RWr Setting<br/>End       Reserved/Error Invalid Station/System<br/>Switching Monitoring Target Station       Paining       Network Synchronous<br/>Communication       Alias       Comment       Station-spec<br/>mode setting         0       Host Station       0       Master Station       0       Master Station       0       Master Station       0       Master Station       0       Model Name       1       RJ72GF15-T2       1       Intelligent Device Station       255       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spec         STA#1       STA#1       Station       255       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spec</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting<br/>Points       RW/RWr Setting<br/>End       Reserved/Error Invalid Station/System<br/>Switching Monitoring Target Station       Paining       Network Synchronous<br/>Communication       Alias       Comment       Station-spec<br/>mode setting         0       Host Station       0       Master Station       0       Master Station       0       Alias       Comment       Station-spec<br/>mode setting         1       R372GF15-T2       1       Intelligent Device Station       255       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spec<br/>mode setting</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting<br/>Points       RW/R/Wr Setting<br/>For Trade Station/System<br/>Switching Monitoring Target Station       Paining       Network Synchronous<br/>Communication       Alias       Comment       Station-spec<br/>mode setting         0       Host Station       0       Master Station       0       Master Station       0       Alias       Comment       Station-spec<br/>mode setting         1       R372GF15-T2       1       Intelligent Device Station       255       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spec         STA#1       STA#1       Station Type       255       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spec</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting<br/>Points       Rt End       Reserved/Error Invalid Station/System<br/>Switching Monitoring Target Station       Pairing       Network Synchronous<br/>Communication       Alas       Comment       Station-spec<br/>mode setting         1       R372GF15-12       1       Intelligent Device Station       255       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spec         STA#1       STA#1       Station       Station       Station       Station       Station-spec</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting       RWW/RWr Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Alias       Comment       Station-spectrom         1       R3/20F15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spectrom</th><th>No.         Model Name         STA#         Station Type         RX/RY Setting<br/>Points         Rtw/RWr Setting<br/>Points         Reserved/Error Invald Station/System<br/>Switching Monitoring Target Station         Pairing         Network Synchronous<br/>Communication         Alias         Comment         Station-spec<br/>mode setting           1         R1/72GF15-T2         1         Intelligent Device Station         256         0000         00FF         No
Setting         Asynchronous         Alias         Comment         Station-spec</th><th>No.         Model Name         STA#         Station Type         RX/RY Setting<br/>Points         Rtw/RWr Setting<br/>Points         Reserved/Error Invald Station/System<br/>Switching Monitoring Target Station         Pairing         Network Synchronous<br/>Communication         Alias         Comment         Station-spec<br/>mode setting           1         R1/72GF15-T2         1         Intelligent Device Station         256         0000         00FF         No Setting         Asynchronous         Alias         Comment         Station-spec</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Allas       Comment       Station-spectro         1       No.       Model Name       0       Moster Station       0       Model Name       Static End       Points       Start       End       Points       Start       End       Switching Monitoring Target Station       Allas       Comment       Station-spectro         1       RJ72GF15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Asynchronous       Image: Comment Station-spectro</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting       Rewr/R/Wr Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectro         1       No.       Model Name       STA#       Station       256       0000       00FF       No       No       Model Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectro         1       N172GF15-12       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Asynchronous</th><th>No.         Model Name         STA#         Station Type         RX/RY Setting         Reserved/Error Invalid Station/System         Pairing         Network Synchronous         Alas         Comment         Station spectrum           1         N3/2GF15-T2         1         Intelligent Device Station         256         0000         00FF         No Setting         Asynchronous         Alas         Comment         Station spectrum</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectro         1       No.       Model Name       STA#       Station       V       V       V       RV/RV Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectro         V       0       Host Station       0       Moster Station       0       V       V       Model Name       Station-System       Pairing       Network Synchronous       Alas       Comment       Station-spectro         V       0       Host Station       0       Moster Station       0       V</th><th>No.       Model Name       STA#       Station Type       RX/RY Setting       Rewr/R/Wr Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectro         10       Host Station       0       Master Station       0       0       Figure Station       0       Master Station       0       Master Station       0       Master Station       0       Master Station       0       0       Figure Station       0       Master Station       0       Master Station       0       Master Station       0       Master Station       0       0       Figure Station       0       0       Figure Station       0       0       Figure Station       0       0       Figure Station       0       0       Figure Station       0       0       0       Figure Station       0       0       Figure Station       0       0       0       Figure Station       0       0       F</th></th></td<> | No.       Model Name       STA#       Station Type       RX/RXY Setting<br>Points       Rewr<br>End       Reserved/Error Invalid Station/System<br>Switching Monitoring Target Station       Paining       Network Synchronous<br>Communication       Alas       Comment       Station-spec<br>mode setting         1       RJ72GF15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spec         STA#1       Station       256       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spec         STA#1       Station       256       0000       00FF       No Setting       Asynchronous       Asynchronous       Asynchronous  | No.       Model Name       STA#       Station Type       RX/RY Setting<br>Points       Rt       Reserved/Error Invalid Station/System<br>Switching Monitoring Target Station       Paining       Network Synchronous<br>Communication       Alas       Comment       Station-spec<br>mode setting         1       RJ7ZGF15-12       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spec         STA#1       Station       256       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spec         STA#1       Station       256       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spec         STA#1       Station       256       0000       00FF       No Setting       Asynchronous       Asynchronous       Station-spec   
   
   | No.       Model Name       STA#       Station Type       RX/RY Setting       Reword/Error Invalid Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectrope         10       0       Host Station       0       Master Station       0       Model Name       0       Master Station       0       Model Name       0       Master Station       0       Master Station       0       Master Station       0       Model Name       0       Master Station       0       Model Name       No.       No. | No.       Model Name       STA#       Station Type       RX/RY Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spe         Image: Distribution of the state of the st | No.       Model Name       STA#       Station Type       RV/kY Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Alias       Comment       Station-spectrom         10       0       Host Station       0       Master Station       0       Model Name       0       Master Station       0       0       Master Station       0       Master Station       0       Master Station       0       0       0       FF       0       00       0FF       No Setting       Asynchronous       0   | No.       Model Name       STA#       Station Type       RX/RY Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Alias       Comment       Station-spectro         10       Host Station       0       Master Station       0       Master Station       256       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spectro         11       R.JZ2GF15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Image: Station       Image: Statio   
   
   
   
   
   | No.       Model Name       STA#       Station Type       RX/RY Setting       Rewrid/Error Invalid Station/System       Pairing       Network Synchronous       Alias       Comment       Station-spectrom         10       Host Station       0       Master Station       0       Master Station       256       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spectrom         11       R.JZ2GF15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Asynchronous       Alias       Comment       Station-spectrom         11       R.JZ2GF15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Asynchronous       Station-spectrom         11       R.JZ2GF15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Station-spectrom         12       STA#1       Station       Station       Station       Station       Station-spectrom       Station-spectrom   | No.       Model Name       STA#       Station Type       RV/kY Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectrope         10       Host Station       0       Master Station       0       Master Station       256       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spectrope         11       RJ72GF15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spectrope         11       RJ72GF15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Asynchronous       Station-spectrope         11       RJ72GF15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Station-spectrope         12       STA#1       Station       256       0000       00FF       No Setting       Asynchronous       Station-spectrope   | No.       Model Name       STA#       Station Type       RV/kY Setting<br>Points       Reserved/Error Invalid Station/System<br>Switching Monitoring Target Station       Pairing       Network Synchronous<br>Communication       Alias       Comment       Station-spectro<br>mode setting         1       RJZ2GF15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spectro<br>mode setting         STA#1       STA#1       Station       256       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spectro<br>mode setting  | No.       Model Name       STA#       Station Type       RX/RY Setting<br>Points       Rt End       Reserved/Error Invalid Station/System<br>Switching Monitoring Target Station       Pairing       Network Synchronous<br>Communication       Alas       Comment       Station-spec<br>mode setting         1       R372GF15-12       1       Intelligent Device Station       255       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spec         STA#1       STA#1       Station       Station       Station       Station       Station-spec  
   
  | No.       Model Name       STA#       Station Type       RX/RY Setting<br>Points       RW/RWr Setting<br>For Invalid Station/System<br>Switching Monitoring Target Station       Paining       Network Synchronous<br>Communication       Alas       Comment       Station-spec<br>mode setting         1       RJ72GF15-12       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spec         STA#1       Station       256       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spec         STA#1       Station       256       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spec   
   
  | No.       Model Name       STA#       Station Type       RX/RY Setting<br>Points       RW/RWr Setting<br>End       Reserved/Error Invalid Station/System<br>Switching Monitoring Target Station       Pairing       Network Synchronous<br>Communication       Alas       Comment       Station-spec<br>mode setting         0       Host Station       0       Master Station       0       Master Station       0       Alas       Comment       Station-spec<br>mode setting         1       R372GF15-T2       1       Intelligent Device Station       255       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spec         STA#1       STA#1       Station       255       0000       00FF       No Setting       Asynchronous       Asynchronous       Station-spec   | No.       Model Name       STA#       Station Type       RX/RXY Setting<br>Points       RX/RXY Setting<br>For Tweld Station/System       Pairing       Network Synchronous<br>Communication       Alas       Comment       Station-spe<br>mode setting         1       R3/72GF15-12       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spe<br>mode setting         Station       0       Master Station       256       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spe<br>mode setting         1       R3/72GF15-12       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Asynchronous         Station       1       R3/72GF15-12       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous         Station       1       R3/72GF15-12       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       No   
   | No.       Model Name       STA#       Station Type       RV/kY Setting<br>Points       Reserved/Error Invalid Station/System<br>Switching Monitoring Target Station       Pairing       Network Synchronous<br>Communication       Alias       Comment       Station-spectro<br>mode setting         1       RJZ2GF15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spectro<br>mode setting         STA#1       STA#1       Station       256       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spectro<br>mode setting   
  | No.       Model Name       STA#       Station Type       RX/RY Setting<br>Points       Rtw/RW Setting<br>For Twaid Station/System<br>Switching Monitoring Target Station       Paining       Network Synchronous<br>Communication       Alas       Comment       Station-spec<br>mode setting         0       Host Station       0       Master Station       0       Master Station       0       Alas       Comment       Station-spec<br>mode setting         1       R372GF15-T2       1       Intelligent Device Station       255       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spec         STA#1       Station Type       Station       255       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spec         STA#1       Station       255       0000       00FF       No Setting       Asynchronous       Asynchronous       Station-spec   | No.       Model Name       STA#       Station Type       RX/RXY Setting<br>Points       RX/RXY Setting<br>For The Points       Reserved/Error Invalid Station/System<br>Switching Monitoring Target Station       Paining       Network Synchronous<br>Communication       Alias       Comment       Station-spectro<br>mode setting         1       R172GF15-12       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spectro<br>mode setting         STA#1       STA#1       Station       256       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spectro<br>mode setting   
   | No.       Model Name       STA#       Station Type       RX/RY Setting<br>Points       Rt End       Reserved/Error Invalid Station/System<br>Switching Monitoring Target Station       Pairing       Network Synchronous<br>Communication       Alas       Comment       Station-spec<br>mode setting         1       R372GF15-12       1       Intelligent Device Station       255       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spec         STA#1       STA#1       Station       Station       Station       Station       Station-spec   
  | No.       Model Name       STA#       Station Type       RX/RY Setting<br>Points       Rt End       Reserved/Error Invalid Station/System<br>Switching Monitoring Target Station       Pairing       Network Synchronous<br>Communication       Alas       Comment       Station-spec<br>mode setting         1       R372GF15-12       1       Intelligent Device Station       255       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spec         STA#1       STA#1       Station       Station       Station       Station       Station-spec  
  | No.         Model Name         STA#         Station Type         RX/RY Setting<br>Points         Rtw/RWr Setting<br>Points         Reserved/Error Invalid Station/System<br>Switching Monitoring Target Station         Pairing         Network Synchronous<br>Communication         Alias         Comment         Station-speci-<br>mode setting
          0         Host Station         0         Master Station         0         Master Station         0         Alias         Comment         Station-speci-<br>mode setting           1         R.172GF15-T2         1         Intelligent Device Station         256         0000         00FF         No Setting         Asynchronous         Alias         Comment         Station-speci-<br>mode setting   
  | No.         Model Name         STA#         Station Type         RX/RY Setting<br>Points         Rtw/RWr Setting<br>Start         Reserved/Error Invalid Station/System<br>Switching Monitoring Target Station         Pairing         Network Synchronous<br>Communication         Alias         Comment         Station-spec<br>mode setting           1         R1372GF15-T2         1         Intelligent Device Station         256         0000         00FF         No Setting         Asynchronous         Alias         Comment         Station-spec  | No.         Model Name         STA#         Station Type         RX/RY Setting         Reserved/Error Invalid Station/System         Pairing         Network Synchronous         Alas         Comment         Station-spec           10         0         Moster Station         0         Moster Station         0         Static         End         Points         Start         End         Switching Monitoring Target Station         0         Alas         Comment         Station-spec           10         1         RJ72GF15-12         1         Intelligent Device Station         256         0000         00FF         No Setting         Asynchronous         Alas         Comment         Station-spec   | No.         Model Name         STA#         Station Type         RX/RY Setting<br>Points         Rtw/RWr Setting<br>Points         Reserved/Error Invalid Station/System<br>Switching Monitoring Target Station         Pairing         Network Synchronous<br>Communication         Alias         Comment         Station-spe<br>mode setting           1         R1/72GF15-T2         1         Intelligent Device Station         256         0000         00FF         No Setting         Asynchronous         Alias         Comment         Station-spe<br>mode setting | No.       Model Name       STA#       Station Type       RX/RY Setting       Rewr/R/Wr Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectro         1       No.       Model Name       STA#       Station       256       0000       00FF       No       No       Model Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectro         1       N172GF15-12       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Asynchronous  
   
   | No.       Model Name       STA#       Station Type       RX/RY Setting       RWW/RWr Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectro         1       No.       Model Name       STA#       Station       0       Master Station       0       Master Station       0       Master Station       0       Master Station       0       Model Name       Station - St | No.         Model Name         STA#         Station Type         RX/RY Setting         Rewr/R/KY Setting         Reserved/Error Invalid Station/System         Pairing         Network Synchronous         Allas         Comment         Station-spectro           Model Name         STA#         Station Type         Points         Start         End         Points         Start         End         Switching Monitoring Target Station         Pairing         Network Synchronous         Allas         Comment         Station-spectro           Model Name         0         Host Station         0         Master Station         0         Station -spectro         Master Station         0         0         0         Figure 3         0         0         Figure 3         0         0         0         0         Figure 3         0         0         0   
   | No.       Model Name       STA#       Station Type       RX/RY Setting       RWW/RWr Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectro         1       No.       Model Name       STA#       Station       0       Master Station       0       Master Station       0       Master Station       0       Master Station       0       Model Name       Station - St | No.       Model Name       STA#       Station Type       RX/RY Setting<br>Points       RW/R/Wr Setting<br>For Two Station/System       Paining       Network Synchronous<br>Communication       Alas       Comment       Station-spectro<br>mode setting         0       Host Station       0       Master Station       0       Master Station       255       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spectro<br>mode setting         1       R.172SF15-T2       1       Intelligent Device Station       255       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spectro<br>mode setting         STA#1       STA#1       Station Type       Station 255       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spectro<br>mode setting  | No.       Model Name       STA#       Station Type       RX/RY Setting       Rewred/Error Invalid Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectro         0       Host Station       0       Master Station       0 <th>No.       Model Name       STA#       Station Type       RV/kY Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectrope         10       Host Station       0       Master Station       0       Master Station       256       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spectrope         11       RJ72GF15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spectrope         11       RJ72GF15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Asynchronous       Station-spectrope         11       RJ72GF15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Station-spectrope         12       STA#1       Station       256       0000       00FF       No Setting       Asynchronous       Station-spectrope</th> <th>No.         Model Name         STA#         Station Type         RX/RY Setting<br/>Points         Rtw/RWr Setting<br/>Points         Reserved/Error Invalid Station/System<br/>Switching Monitoring Target Station         Pairing         Network Synchronous<br/>Communication         Alias         Comment         Station-spe<br/>mode setting           1         R1/72GF15-T2         1         Intelligent Device Station         256         0000         00FF         No Setting         Asynchronous         Alias         Comment         Station-spe<br/>mode setting</th> <th>No.         Model Name         STA#         Station Type         RX/RY Setting<br/>Points         Rtw/RWr Setting<br/>Points         Reserved/Error Invalid Station/System<br/>Switching Monitoring Target Station         Pairing         Network Synchronous<br/>Communication         Alias         Comment         Station-spe<br/>mode setting           1         R1/72GF15-T2         1         Intelligent Device Station         256         0000         00FF         No Setting         Asynchronous         Alias         Comment         Station-spe<br/>mode setting</th> <th>No.       Model Name       STA#       Station Type       RX/RY Setting<br/>Points       RW/R/Wr Setting<br/>For Twald Station/System<br/>Switching Monitoring Target Station       Paining       Network Synchronous<br/>Communication       Alias       Comment       Station-spe<br/>mode setting         0       Host Station       0       Master Station       0       Master Station       0       Model Name       Alias       Comment       Station-spe<br/>mode setting         1       RJ72GF15-T2       1       Intelligent Device Station       255       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spe<br/>mode setting         STA#1       STA#1       STA#1       Station       255       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spe<br/>mode setting</th> <th>No.       Model Name       STA#       Station Type       RX/RY Setting<br/>Points       RW/RWr Setting<br/>End       Reserved/Error Invalid Station/System<br/>Switching Monitoring Target Station       Paining       Network Synchronous<br/>Communication       Alias       Comment       Station-spec<br/>mode setting         0       Host Station       0       Master Station       0       Master Station       0       Master Station       0       Master Station       0       Model Name       1       RJ72GF15-T2       1       Intelligent Device Station       255       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spec         STA#1       STA#1       Station       255       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spec</th> <th>No.       Model Name       STA#       Station Type       RX/RY Setting<br/>Points       RW/RWr Setting<br/>End       Reserved/Error Invalid Station/System<br/>Switching Monitoring Target Station       Paining       Network Synchronous<br/>Communication       Alias       Comment       Station-spec<br/>mode setting         0       Host Station       0       Master Station       0       Master Station       0       Alias       Comment       Station-spec<br/>mode setting         1       R372GF15-T2       1       Intelligent Device Station       255       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spec<br/>mode setting</th> <th>No.       Model Name       STA#       Station Type       RX/RY Setting<br/>Points       RW/R/Wr Setting<br/>For Trade Station/System<br/>Switching Monitoring Target Station       Paining       Network Synchronous<br/>Communication       Alias       Comment       Station-spec<br/>mode setting         0       Host Station       0       Master Station       0       Master Station       0       Alias       Comment       Station-spec<br/>mode setting         1       R372GF15-T2       1       Intelligent Device Station       255       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spec         STA#1       STA#1       Station Type       255       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spec</th> <th>No.       Model Name       STA#       Station Type       RX/RY Setting<br/>Points       Rt End       Reserved/Error Invalid Station/System<br/>Switching Monitoring Target Station       Pairing       Network Synchronous<br/>Communication       Alas       Comment       Station-spec<br/>mode setting         1       R372GF15-12       1       Intelligent Device Station       255       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spec         STA#1       STA#1       Station       Station       Station       Station       Station-spec</th> <th>No.       Model Name       STA#       Station Type       RX/RY Setting       RWW/RWr Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Alias       Comment       Station-spectrom         1       R3/20F15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spectrom</th> <th>No.         Model Name     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Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectro         1       N172GF15-12       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Asynchronous</th> <th>No.         Model Name         STA#         Station Type         RX/RY Setting         Reserved/Error Invalid Station/System         Pairing         Network Synchronous         Alas         Comment         Station spectrum           1         N3/2GF15-T2         1         Intelligent Device Station         256         0000         00FF         No Setting         Asynchronous         Alas         Comment         Station spectrum</th> <th>No.       Model Name       STA#       Station Type       RX/RY Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Alas       Comment       Station-spectro         1       No.       Model Name       STA#       Station       V       V       V      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RJ72GF15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Asynchronous       Station-spectrope         11       RJ72GF15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Station-spectrope         12       STA#1       Station       256       0000       00FF       No Setting       Asynchronous       Station-spectrope   | No.         Model Name         STA#         Station Type         RX/RY Setting<br>Points         Rtw/RWr Setting<br>Points         Reserved/Error Invalid Station/System<br>Switching Monitoring Target Station         Pairing         Network Synchronous<br>Communication         Alias         Comment         Station-spe<br>mode setting           1         R1/72GF15-T2         1         Intelligent Device Station         256         0000         00FF         No Setting         Asynchronous         Alias         Comment         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  | No.       Model Name       STA#       Station Type       RX/RY Setting<br>Points       RW/R/Wr Setting<br>For Trade Station/System<br>Switching Monitoring Target Station       Paining       Network Synchronous<br>Communication       Alias       Comment       Station-spec<br>mode setting         0       Host Station       0       Master Station       0       Master Station       0       Alias       Comment       Station-spec<br>mode setting         1       R372GF15-T2       1       Intelligent Device Station       255       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spec         STA#1       STA#1       Station Type       255       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spec   | No.       Model Name       STA#       Station Type       RX/RY Setting<br>Points       Rt End       Reserved/Error Invalid Station/System<br>Switching Monitoring Target Station       Pairing       Network Synchronous<br>Communication       Alas       Comment       Station-spec<br>mode setting         1       R372GF15-12       1       Intelligent Device Station       255       0000       00FF       No Setting       Asynchronous       Alas       Comment       Station-spec         STA#1       STA#1       Station       Station       Station       Station       Station-spec   | No.       Model Name       STA#       Station Type       RX/RY Setting       RWW/RWr Setting       Reserved/Error Invalid Station/System       Pairing       Network Synchronous       Alias       Comment       Station-spectrom         1       R3/20F15-T2       1       Intelligent Device Station       256       0000       00FF       No Setting       Asynchronous       Alias       Comment       Station-spectrom  
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  | TAHD Master<br>tal STA#:1<br>re/Star   
   
  | Atto Master<br>tal STA#:1<br>le/Star   | TAHD Master<br>tal STAH:1<br>le/Star  
   
   | TA#0 Master<br>stal STA#:1<br>ne/Star  | AttO Master<br>tal STA#:1<br>e/Star  | TAHD Master<br>tal STA#:1<br>re/Star  
   | TAHD Master<br>tal STAH:1<br>le/Star  
   
  | TAHD Master<br>tal STAH:1<br>le/Star   
  | AttO Master<br>tal STA#:1<br>e/Star  
  | AttO Master<br>tal STA#:1<br>e/Star  | TAHD Master<br>tal STA#:1<br>re/Star  | AttO Master<br>al STA#:1<br>e/Star   | TAHD Master<br>tal STAH:1<br>le/Star   
   
   
   | Atto Master<br>tal STA#:1<br>le/Star  | AHD Master<br>al STA#:1<br>/Star  | Atto Master<br>tal STA#:1<br>le/Star  | AHD Moster<br>al STAH:1<br>/Star   | TA#D Master<br>otal STA#:1<br>ne/Star  
   
  | TA#0 Master<br>stal STA#:1<br>ne/Star   | AttO Master<br>al STA#:1<br>e/Star   | AttO Master<br>al STA#:1<br>e/Star   | AttO Master<br>al STA#:1<br>e/Star   | AttO Master<br>tal STA#:1<br>e/Star  | Atto Master<br>tal STA#:1<br>le/Star  | AttO Master<br>tal STA#:1<br>e/Star  
  | TAHD Master<br>tal STAH:1<br>le/Star  | Atto Master<br>tal STA#:1<br>le/Star  | AttO Master<br>al STA#:1<br>e/Star   
  | AttO Master<br>al STA#:1<br>e/Star  | Atto Master<br>tal STA#:1<br>le/Star   | TAHD Master<br>tal STAH:1<br>le/Star   | AttO Master<br>tal STA#:1<br>e/Star  
  | Atto Master<br>tal STA#:1<br>le/Star  | TA#0 Master<br>stal STA#:1<br>ne/Star  |  |
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- 7. Set "Refresh Setting" of "Module Parameter" of the master/local module as shown below.
- (Navigation window] ⇒ [Parameter] ⇒ [Module Information] ⇒ [RJ71GF11-T2] ⇒ [Module Parameter] ⇒ [Basic Settings]

No.			Link Side						CPU S	ide			
NU.	Device Nam	ie	Points	Start	End		Target		Device Nam	е	Points	Start	End
-	SB	-	512	00000	001FF		Module Label	•					
-	SW	-	512	00000	001FF		Module Label	Ŧ					
1	RX	-	256	00000	000FF	-	Specify Device	•	Х	Ŧ	256	01000	010FF
2	RY	-	256	00000	000FF	-	Specify Device	•	Υ	Ŧ	256	01000	010FF
3	R₩w	•	256	00000	000FF	-	Specify Device	•	W	Ŧ	256	00000	000FF
4	R₩r	T	256	00000	000FF	-	Specify Device	Ŧ	W	Ŧ	256	01000	010FF
5		•				- 🗰 -		Ŧ					

**8.** Write the set parameters to the CPU module on the master station. Then reset the CPU module or power off and on the system.

♥ [Online] ⇒ [Write to PLC]

### Point P

For parameters of the master/local module which are not described in this procedure, set default values. For details on parameters of the master/local module, refer to the following.

MELSEC iQ-R CC-Link IE Field Network User's Manual (Application)

## Setting in the intelligent device station

Connect the engineering tool to the remote head module of the intelligent device station and set parameters.

- **1.** Create the project with the following settings.
- ♥♥ [Project] ⇒ [New]

New	<b>—</b> ×
Series	📲 RCPU 🔻
Type	RJ72GF15-T2 🗸
Mode	
Program Language	Do not Specify 💌
	OK Cancel

2. Set "Network Required Setting" of "CPU Parameter" of the remote head module as shown below.

### (Navigation window) ⇒ [Parameter] ⇒ [RJ72GF15-T2] ⇒ [CPU Parameter] ⇒ [Network Required Setting]

Item	Setting
😑 Network Number	
Network Number	1
😑 Station Number	
Station No.	1

**3.** Add the high-speed counter module with the following settings.

[Navigation window] ⇒ [Parameter] ⇒ [Module Information] ⇒ Right-click ⇒ [Add New Module]

ĺ	A	dd	New Module		x
		Μ	Iodule Selection		
		Μ	1odule Type	🚵 Pulse I/O/Positioning	-
		Μ	lodule Name	RD62P2	-
		S	tation Type		
		A	dvanced Settings		
			Mounting Position		
			Mounting Base	Main Base	
			Mounting Slot No.	0	-
			Start I/O No. Specification	Not Set	-
			Start I/O No.	0000 H	
			Number of Occupied Points per 1	16Point	
			mber of Occupied Points per 1 s play occupied points of selection m		
				OK Cancel	) 

### **4.** Configure the setting not to use the module labels.

MELSOF	T GX Works3	
1	Add a module. [Module Name] RD62P2 [Start I/O No.] 0000	
Mo	dule Setting	Setting Change
M	odule Label:Not use	*
		Ŧ
Do	Not Show this Dialog Again	OK

**5.** Set "Basic setting" of "Module Parameter" of the high-speed counter module as shown below.

(Navigation window) ⇒ [Parameter] ⇒ [Module Information] ⇒ [RD62P2] ⇒ [Module Parameter] ⇒ [Basic setting]

Item	CH1	CH2
Pulse input mode	Set the pulse input mode.	
Pulse input mode	3: 2-phase multiple of 1	0: 1-phase multiple of 1
Counting speed setting	Set the counting speed.	
Counting speed setting	2:200kpps	0:10kpps
😑 Counter type	Set the counter type.	
Counter type	0: Linear counter	0: Linear counter
Counter operation mode	Set the counter operation mode.	
Counter operation mode	0: Pulse count mode	0: Pulse count mode
😑 Preset Value Setting	Area to set a value to be preset to the co	unter
Preset Value Setting	2500	0
😑 Coincidence output point No.1	Area to write the setting value of Coinci	dence output point No.1 to be compared wi
Coincidence output point No.1	1000	0
😑 Coincidence output point No.2	Area to write the setting value of Coinci	dence output point No.2 to be compared wi
Coincidence output point No.2	0	0
😑 Ring Counter Upper Limit Value	Area to set the count range when the cou	unter type is ring counter
Ring Counter Upper Limit Value	5000	0
😑 Ring Counter Lower Limit Value	Area to set the count range when the cou	unter type is ring counter
Ring Counter Lower Limit Value	-5000	0
Setting item <sup>*1</sup>		Setting value

Setting item <sup>1</sup>	Setting value
Pulse input mode	3: 2-phase multiple of 1
Counting speed setting	2: 200kpps
Counter type	Set the parameter according to the requirement of users.
Counter operation mode	Set the parameter according to the mode used.
Preset Value Setting	2500
Coincidence output point No.1	1000
Ring Counter Upper Limit Value	5000 <sup>*2</sup>
Ring Counter Lower Limit Value	-5000 <sup>*2</sup>

\*1 Use CH1 only. For CH2, setting items are all default value.

\*2 Set the parameter only when the ring counter function is used.

- **6.** Set "Application setting" of "Module Parameter" of the high-speed counter module as shown below.
- (Navigation window] ⇒ [Parameter] ⇒ [Module Information] ⇒ [RD62P2] ⇒ [Module Parameter] ⇒ [Application setting]

Item	CH1	CH2
Counter Function Selection	Select the counter function.	
Counter Function Selection	0: Count disable function	0: Count disable function
🖃 Sampling Time Setting/Period Time Setting	Area to write the time setting value	es of the sampling counter function and the
Sampling Time Setting/Period Time Setting	0 × 10ms	0 × 10ms
Function input response time setting	Set the function input response time	2.
Function input response time setting	4: Response time 0.1ms	4: Response time 0.1ms
😑 Preset input response time setting	Set the preset input response time.	
Preset input response time setting	4: Response time 0.1ms	4: Response time 0.1ms
😑 Pulse Measuring Interval Setting	Select one of the ON width, OFF wi	dth, Rise to Rise, and Fall to Fall as the pul
Pulse Measuring Interval Setting	0: ON width	0: ON width
😑 PWM Output Interval Time Setting	Input the cycle time for the PWM ou	itput.
PWM Output Interval Time Setting	2147483647 × 0.1us	2147483647 × 0.1us
😑 PWM Output On Time Setting 1	Input the ON time for the PWM outp	ut 1.
PWM Output On Time Setting 1	0 × 0.1us	0 × 0.1us
😑 PWM Output On Time Setting 2	Input the ON time for the PWM outp	ut 2.
PWM Output On Time Setting 2	0 × 0.1us	0 × 0.1us
😑 CPU error output mode setting	You can be the setting of whether t	o keep or not to clear the output of the mod
GPU error output mode setting	0: Clear	

Setting item <sup>*1</sup>	Setting value
Counter Function Selection	Set the parameter according to the counter function used.
Sampling Time Setting/Period Time Setting	• $1000 \times 10 \text{ms}^{*2}$ • $500 \times 10 \text{ms}^{*3}$
Function input response time setting	4: Response time 0.1ms (default value)
Preset input response time setting	4: Response time 0.1ms (default value)
Pulse Measuring Interval Setting	2: Rise - Rise <sup>*4</sup>
PWM Output Interval Time Setting	$1500 \times 0.1 \mu s^{*5}$
PWM Output On Time Setting 1	$500 \times 0.1 \mu s^{*5}$
PWM Output On Time Setting 2	$0 \times 0.1 \mu s$ (default value)
CPU error output mode setting	0: Clear (default value)

\*1 Use CH1 only. For CH2, setting items are all default value.

 $^{\ast}2$   $\,$  Set the parameter only when the sampling counter function is used.

\*3 Set the parameter only when the cycle pulse counter function is used.

\*4 Set the parameter only when the pulse measurement mode is used.

\*5 Set the parameter only when the PWM output mode is used.

7. Set "Refresh settings" of "Module Parameter" of the high-speed counter module as shown below.

 $\bigcirc$  [Navigation window]  $\Rightarrow$  [Parameter]  $\Rightarrow$  [Module Information]  $\Rightarrow$  [RD62P2]  $\Rightarrow$  [Module Parameter]  $\Rightarrow$  [Refresh settings]

	Item	CH1	CH2
Ę	Refresh at the set timing.		
ļ	😑 Transfer to the CPU.	Transfer the buffer memory data to the spec	cified device.
	Present value	W1000	
	Sampling Time Flag/Period Time Flag		
	Counter Function Update Flag		
	Latch Count Value	W1002	
	Sampling Count Value	W1004	
	Period Pulse Count Previous Value	W1006	
	Period Pulse Count Present Value	W1008	
	<ul> <li>Period Pulse Count Difference Value(L)</li> </ul>		
	Period Pulse Count Difference Value(H)		
	Overflow detection	W1010	
	Pulse Measuring Function Running Flag		
	Pulse Measuring Value Update Flag		
	Pulse Measured Value	W1012	
	Signal monitor		

**8.** Write the set parameters to the remote head module on the intelligent device station. Then reset the remote head module or power off and on the system.

♥ [Online] ⇒ [Write to PLC]



For parameters of the remote head module which are not described in this procedure, set default values. For details on parameters of the remote head module, refer to the following.

• D MELSEC iQ-R CC-Link IE Field Network Remote Head Module User's Manual (Application)

## Checking the network status

After setting parameters to the master station and the intelligent device station, check whether data link is normally performed between the master station and the intelligent device station. Check the network status using the CC-Link IE Field Network diagnostics of the engineering tool.

For how to perform the CC-Link IE Field Network diagnostics from the master station, refer to the following.

MELSEC iQ-R CC-Link IE Field Network User's Manual (Application)

### **Program examples**

For the program examples, the module labels of the master/local module are used. Write the programs to the CPU module on the master station.

lassification	Label name		Desc	riptio	n		Device
odule label	GF11_1.bSts_DataLinkError		Data I	ink erro	or status of owr	n station	SB0049
	GF11_1.bnSts_DataLinkError_Station	[1]	Data I numb		tus of each stat	tion (station	SW00B0.0
bel to be defined	Define global labels as shown below:						
	■Program example in pulse count mo						
	Label Name	Data T			Class	A	(D /) ()
	Connect_FormationFlg_St1	Data T Bit	ihe		VAR_GLOBAL ·		(Device/Label)
	InterlockTimer1	Timer			VAR_GLOBAL ·		
	InterlockTimer2	Timer			VAR_GLOBAL ·		
	InterlockTimer3	Timer			VAR_GLOBAL		
	InterlockTimer4	Timer			VAR_GLOBAL		
	In terlockTimer5	Timer			VAR GLOBAL		
	PresentValue	Double Word [Signe	4]		VAR_GLOBAL ·		
	LatchCountValue	Double Word [Signe	-		VAR_GLOBAL		
	SamplingCountValue	Double Word [Signe			VAR_GLOBAL		
	PeriodPulseCountPreviousValue	Double Word [Signe			VAR_GLOBAL		
	PeriodPulseCountPresentValue	Double Word [Signe	-		VAR_GLOBAL ·		
	OverflowDetection	Word [Unsigned]/B		-bitl	VAR_GLOBAL		
	CountOperationStartSignal	Bit			VAR_GLOBAL		
	CoincidenceOutputDataSettingSignal	Bit			VAR GLOBAL		
	PresetCommandSignal	Bit			VAR_GLOBAL		
	CountOperationStopSignal	Bit			VAR_GLOBAL		
	CoincidenceLEDclearSignal	Bit			VAR_GLOBAL ·		
	CountDisableStartSignal	Bit			VAR_GLOBAL ·		
	CountDisableStopSignal	Bit			VAR_GLOBAL	- X97	
	LatchExecutionSignal	Bit			VAR_GLOBAL		
	SamplingCountStartSignal	Bit			VAR_GLOBAL ·		
	PeriodicPulseCountStartSignal	Bit			VAR_GLOBAL		
	Ready	Bit			VAR_GLOBAL		
	CH1_CounterValueCoincidence	Bit			VAR_GLOBAL		
	CoincidenceConfirmationLEDsignal	Bit			VAR GLOBAL		
	OverflowConfirmationLEDsignal	Bit			VAR_GLOBAL		
	CH1_CoincidenceSignalResetCommand	Bit			VAR_GLOBAL		
	OH1 PresetCommand	Bit			VAR GLOBAL		
	OH1_CoincidenceOutputEnableCommand	Bit			VAR GLOBAL		
	CH1_CountEnableCommand	Bit			VAR_GLOBAL		
	CH1_CounterFunctionSelectionStartComma				VAR_GLOBAL		
	Program example in pulse measure				oroqueotine .	11000	
	Label Name	Data Typ	e _		Class	Assign (Dev	ice/Label)
	PulseMeasuredValue	Double Word [Si	(ned]	VAF	R_GLOBAL 🛛 👻	W1012	
	PulseMeasureStart	Bit		VAF		X2E	
	PulseMeasureStop	Bit				X2F	
	Ready	Bit				X1000	
	CH1_PulseMeasurementStartComma					Y1006	
	Connect_FormationFlg_St1	Bit		IVAH	R_GLOBAL 🚽	MO	
	■Program example in PWM output m	ode					
	Label Name	Data Type		Class	s Ass	ign (Device/Lab	el)
	PWMOutputStart	Bit	VAR	GLOB	4L 👻 X30		
	Ready	Bit		GLOB			
	CH1_PWMOutputStartCommand	Bit		GLOB/			
		Bit		-			
	Connect_FormationFlg_St1		1 D/AD	GLOB/			

### Common program

The following figure shows an example of the program to check the data link status of the remote head module (station number 1).

(0)	GF11_1.bSts_DataLin kError	GF11_1.bnSts_DataLinkError_Stati on[1]	 			 MC	NO	Connect_FormationFlg_St1 M0
N0 _	Connect_FormationFl g_St1 M0 			 2	2			

(0) Checks the data link status of the remote head module (station number 1).

Add the MCR instruction shown below to the last of the program.

MCB			6)
Mon			o/

### Program example in pulse count mode

#### Program example in pulse count mode

• To start the count operation

(32)	Ready X1000	CountOperationStartSignal X20					 SET	CH1_CountEnableCommand Y1004
(32)	Turns on 'CH	11 Count enable comm	and' (Y1004).					
• To	stop the c	ount operation						
	Ready	CountOperationStopSignal						CH1_CountEnableCommand
(48)	X1000	X24				 	 RST	Y1004

(48) Turns off 'CH1 Count enable command' (Y1004).

#### · Setting to output the counter value coincidence signal

(64)	Ready X1000	CoincidenceOutputDataSettingSig nal X22					SET	CH1_CoincidenceSignalResetC ommand Y1000
							SET	CH1_CoincidenceOutputEnable Command Y1002
(89)	Ready X1000	CH1_CoincidenceSignalResetCom mand Y1000	CoincidenceOutputData SettingSignal X22			OUT	InterlockTimer1 T1	K10
(96)	InterlockTimer1 T1					 	RST	CH1_CoincidenceSignalResetC ommand Y1000
				۵				CH1_CoincidenceOutputEnable Command Y1002

(64) Turns on 'CH1 Coincidence signal No.1 reset command' (Y1000) and 'CH1 Coincidence signal enable command' (Y1002).

(89) Turns off 'CH1 Coincidence signal No.1 reset command' (Y1000) and 'CH1 Coincidence signal enable command' (Y1002).

#### · Processing when the count values match

(99)	Ready X1000	CH1_CoincidenceOutputEnableCo mmand Y1002	CH1_CounterValueCoinc idence X1002	CH1_CoincidenceSignalReset Command Y1000					CoincidenceConfirmationLEDsi gnal Y40
		CH1_CounterValueCoincidence X1002	CoincidenceLEDclearSig nal X25 I				 	SET	CH1_CoincidenceSignalResetC ommand Y1000
		CH1_CounterValueCoincidence X1002	CH1_CoincidenceSignalR esetCommand Y1000				 	RST	CH1_CoincidenceSignalResetC ommand Y1000

(99) Performs an external output when the count values match.

#### · To perform the preset

(126)	Ready X1000	PresetCommandSignal X23 						SET	CH1_PresetCommand Y1001
(148)	Ready X1000	CH1_PresetCommand Y1001	PresetCommandSignal X23			 	OUT	InterlockTimer2 T2	К10
(155)	InterlockTimer2 T2					 		RST	CH1_PresetCommand Y1001

(126) Turns on 'CH1 Preset command' (Y1001).

(148) Turns off 'CH1 Preset command' (Y1001).

### ■Program example of the counter function selection

When using the functions listed below, use the following programs.

#### · To use the count disable function

(157) Ready X1000	CountDisableStartSignal X26				 SET	CH1_CounterFunctionSelection StartCommand Y1006
	CountDisableStopSignal X27				 RST	CH1_CounterFunctionSelection StartCommand Y1006

(157) Starts and stops the count disable function

#### To use the latch counter function

(159)	Ready X1000	LatchExecutionSignal X29			 			SET	CH1_CounterFunctionSelectionStar tCommand Y1006
		CH1_CounterFunctionSelectionSta rtCommand Y1006	LatchExecutionSignal X29 VI		 	 	OUT	InterlockTimer3 T3	К10
		InterlockTimer3 T3 I			 			RST	CH1_CounterFunctionSelectionStar tCommand Y1006

(159) Starts and stops the latch counter function

#### To use the sampling counter function

(157)	Ready X1000	SamplingCountStartSig nal X2B			 			SET	CH1_CounterFunctionS electionStartCommand Y1006
		CH1_CounterFunctionS electionStartCommand Y1006	SamplingCountStartSig nal X2B		 	 0	DUT	InterlockTimer4 T4	K10
		InterlockTimer4 T4			 			RST	CH1_CounterFunctionS electionStartCommand Y1006

(157) Starts and stops the latch counter function

#### · To use the cycle pulse counter function

(157	Ready X1000	PeriodicPulseCountSta rtSignal X2C						SET	CH1_CounterFunctionSel ectionStartCommand Y1006
		CH1_CounterFunctionS P electionStartCommand Y1006	PeriodicPulseCountSta rtSignal X2C				OUT	InterlockTimer5 T5	K10
		InterlockTimer5 T5 I			 			RST	CH1_CounterFunctionSel ectionStartCommand Y1006

(157) Starts and stops the cycle pulse counter function

### ■Processing of the overflow detection

Create the program only when the linear counter is used.

1	Death								
(178)	Ready X1000	= 11	OverflowDetection	K1					Y41
(170)	—— I I ———		W1010					 	
									÷

(178) Turns on 'LED signal for overflow occurrence check' (Y41) when an overflow is detected.

### Program example in pulse measurement mode

(32)	Ready X1000	PulseMeasureStart X2E 		 	 	 	SET	CH1_PulseMeasurementStartC ommand Y1006
(47)	Ready X1000	PulseMeasureStop X2F		 	 	 	RST	CH1_PulseMeasurementStartC ommand Y1006

(32) Starts the pulse measurement.

(47) Stops the pulse measurement.

### Program example in PWM output mode

(32)	Ready X1000	PWMOutputStart X30 I		 			CH1_PWMOutputSt artCommand Y1006
(44)	Ready X1000	CH1_PWMOutputStartCommand Y1006		 	 		PWMOutputConfir mationLEDsignal Y42

(32) Starts and stops the PWM output.

(44) Turns on 'LED signal for PWM under-output check' (Y42) at a PWM output.

# Appendix 5 Added or Changed Functions

This section describes the functions added to or changed for the high-speed counter module.

Added or changed contents	Reference
Online module change	MELSEC iQ-R Online Module Change Manual

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CH1 Counter function selection start comman	
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CH1 Counter value coincident (point No.1)	
CH1 Counter value coincident (point No.2)	
CH1 Counter value larger (point No.1)	
CH1 Counter value larger (point No.2)	
CH1 Counter value smaller (point No.1)	
CH1 Counter value smaller (point No.2)	
CH1 Cycle pulse count current value	
CH1 Cycle pulse count difference value	
CH1 Cycle pulse count previous value	
CH1 Down count command	
CH1 External preset detection reset command	
CH1 External preset request detection	
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CH1 Sampling/cycle time setting	
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CH1 Synchronization latch count value	
CH1 Synchronization measured pulse value .	

Coincidence detection interrupt function	,
Coincidence output function	ĺ.
Count disable function	,
Count error	
Counter function selection	Ì
Counter type	
CW/CCW	,
Cycle pulse counter function	

## I \_\_\_\_\_

Interrupt setting																											4	2
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### L

-
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Linear counter function

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ouniphing oountor	101101101111	 •••		•	• •		•	

# REVISIONS

Revision date	*Manual number	Description
June 2014	SH(NA)-081241ENG-A	First edition
January 2015	SH(NA)-081241ENG-B	<ul> <li>Added function</li> <li>Online module change</li> <li>Added or modified parts</li> <li>RELEVANT MANUALS, Appendix 4</li> </ul>
May 2016	SH(NA)-081241ENG-C	Added or modified parts SAFETY PRECAUTIONS, RELEVANT MANUALS, TERMS, Section 1.3, 1.7, 2.3, 2.5, Appendix 4

\*The manual number is given on the bottom left of the back cover.

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### 1. 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.

### [Gratis Warranty Term]

The gratis warranty term of the product shall be for one year 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 gratis warranty term after manufacturing shall be eighteen (18) months. The gratis warranty term of repair parts shall not exceed the gratis warranty term before repairs.

[Gratis Warranty Range]

- (1) 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.
- (2) Even within the gratis warranty term, repairs shall be charged for in the following cases.
  - 1. Failure occurring from inappropriate storage or handling, carelessness or negligence by the user. Failure caused by the user's hardware or software design.
  - 2. Failure caused by unapproved modifications, etc., to the product by the user.
  - 3. 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.
  - 4. Failure that could have been avoided if consumable parts (battery, backlight, fuse, etc.) designated in the instruction manual had been correctly serviced or replaced.
  - 5. 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.
  - 6. Failure caused by reasons unpredictable by scientific technology standards at time of shipment from Mitsubishi.
  - 7. 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

- (1) Mitsubishi shall accept onerous product repairs for seven (7) years after production of the product is discontinued. Discontinuation of production shall be notified with Mitsubishi Technical Bulletins, etc.
- (2) Product supply (including repair parts) is not available 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:

- (1) Damages caused by any cause found not to be the responsibility of Mitsubishi.
- (2) Loss in opportunity, lost profits incurred to the user by Failures of Mitsubishi products.
- (3) Special damages and secondary damages whether foreseeable or not, compensation for accidents, and compensation for 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.

# TRADEMARKS

The company names, system names and product names mentioned in this manual are either registered trademarks or trademarks of their respective companies.

In some cases, trademark symbols such as  ${}^{{}^{\!\!\!\mathsf{TM}}\!\!}$  or  ${}^{'\!\!\!}\mathfrak{B}\!\!'$  are not specified in this manual.

SH(NA)-081241ENG-C(1605)MEE MODEL: RD62-U-OU-E MODEL CODE: 13JX14

# MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE : TOKYO BUILDING, 2-7-3 MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN NAGOYA WORKS : 1-14 , YADA-MINAMI 5-CHOME , HIGASHI-KU, NAGOYA , JAPAN

When exported from Japan, this manual does not require application to the Ministry of Economy, Trade and Industry for service transaction permission.

Specifications subject to change without notice.