

数字式控制器

CHN 使用说明书

感谢您购买欧姆龙E5EC数字式控制器。本说明书详细描述了产品的功能、性能以及充分发挥产品使用效果的应用方法...

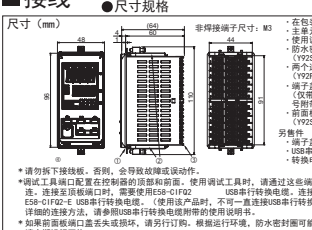
欧姆龙公司

有关详细的应用步骤，请参阅《E5EC数字式控制器用户手册》(Cat.No.H180)。

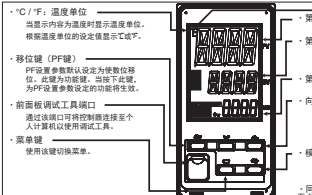
安全事项

表示潜在的危險情形，如不加以防止，很可能导致人身伤害或财产损失。在使用该产品前应仔细阅读本说明书。

接线



前面板的元件名称



操作菜单

Table with columns for Input Type (铂电阻, 热电偶, 电压输入), Setting, and Description.

报警

Table with columns for Alarm Type (无报警功能, 偏差上限, etc.), Alarm Type, and Alarm Output.

符合EN15118标准。这是一款A类产品。因其住宅区内会导致无线电干扰，所以要求采用适当的屏蔽减少干扰。

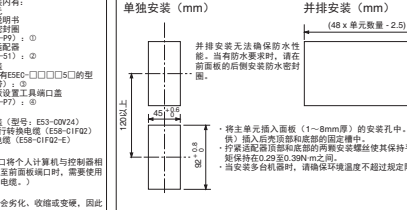
警告符号

警告 (Warning) section with symbols and text: 通电前，请勿触摸端子。请勿将导电物体、导电液体或导电气体引入到控制器...

适用性

在客户的应用中，欧姆龙不负责产品对于任何客户产品所涉及的规格、规范和标准保持一致性。请务必考虑本产品对于所连接的设备、机构和设备的适用性。

安装



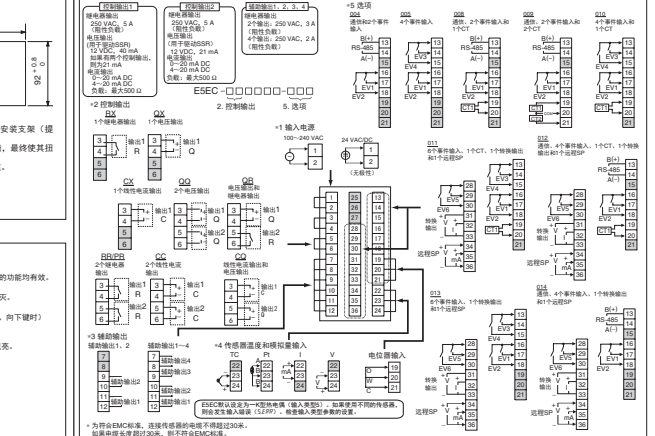
安全使用注意事项

- 请务必遵守以下注意事项。违反规定可能导致产品特性及功能造成不良影响。否则，可能会导致人身伤害或财产损失。
(1) 该产品只能设计为室内使用。请勿在室外使用...

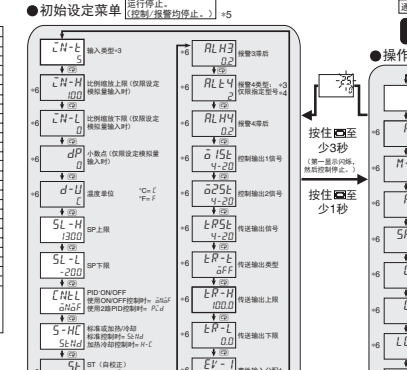
规格

Specifications table including Power Supply (100-240V AC), Input/Output, and Environmental conditions.

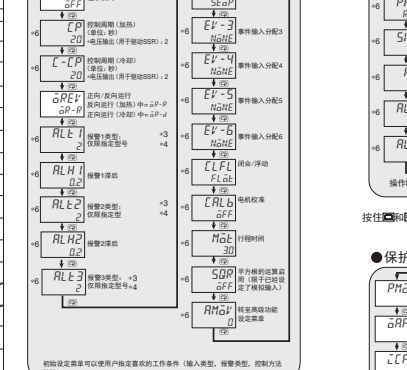
连接



初始设定菜单



操作菜单

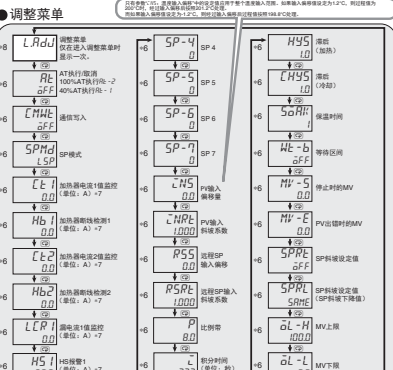


符合安全标准。在输入电源、继电器输出之间以及其它端子之间提供了强化绝缘。请务必使电源一次侧上发生的期间过电压不要超过以下电压。

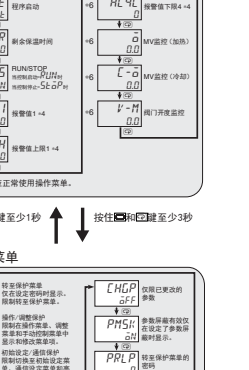
通电



调整菜单



保护菜单



错误显示 (故障诊断)

Error Display table with columns for Error Code, Meaning, and Action.

联系方式

欧姆龙(上海)有限公司 地址: 中国上海市浦东新区金桥出口加工区金吉路789号
欧姆龙自动化(中国)有限公司 地址: 中国上海市浦东新区银城中路200号中银大厦2211室

# ES5C OMRON Digital Controller

## INSTRUCTION MANUAL

Thank you for purchasing the OMRON ES5C Digital Controller. This manual describes the functions, performance, and application methods needed for optimum use of the product. Please observe the following items when using the product.

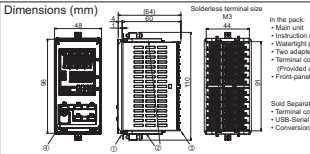
- This product is designed for use by qualified personnel with a knowledge of electrical systems.
- Before using the product, thoroughly read and understand this manual to ensure correct use.
- Keep this manual in a safe location so that it is available for reference whenever required.

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Refer to the ES-5C Digital Controller User's Manual (Cat. No. H1174) for detailed application procedures.

- Safety Precautions
- Indicates a potentially hazardous situation which, if not avoided, is likely to result in minor or moderate injury or property damage.
- Caution

## Wiring



Do not remove the terminal block. Doing so may result in failure or malfunction. Setup Tool ports are provided on the top and front of the Digital Controller.

- Names of Parts on Front Panel
- °C / °F: temperature unit
- Temperature unit is displayed when the displayed value is a temperature.
- Shift key (PF key): for shifting the display. This is a function key.
- Front-panel Setup Tool port: this port is used to connect the Controller to a computer to use the Setup Tool.

## Operation Menu

Input type	Input	Setting	Setting range
Platinum resistance thermometer	PT100	1	-300.0 to 500.0, -300.0 to 1500
		2	0.0 to 100.0, 0.0 to 210.0
		3	-199.9 to 500.0, -199.9 to 1500
		4	0.0 to 100.0, 0.0 to 210.0
		5	-199.9 to 500.0, -199.9 to 1500
		6	0.0 to 100.0, 0.0 to 210.0

Setting	Alarm type	Alarm output function	Output off
0	No alarm function	Position alarm function (ON)	Very high, Very low, H, L
1	Deviation upper/lower limit	Very high, Very low, H, L	
2	Deviation upper limit	Very high, Very low, H, L	
3	Deviation lower limit	Very high, Very low, H, L	
4	Deviation upper/lower range	Very high, Very low, H, L	
5	Deviation upper/lower limit standby sequence ON	Very high, Very low, H, L	
6	Deviation lower limit standby sequence ON	Very high, Very low, H, L	
7	Deviation upper limit standby sequence ON	Very high, Very low, H, L	
8	Absolute value upper limit	Very high, Very low, H, L	
9	Absolute value lower limit	Very high, Very low, H, L	
10	Absolute value upper limit standby sequence ON	Very high, Very low, H, L	
11	Absolute value lower limit standby sequence ON	Very high, Very low, H, L	
12	LBA (only for alarm 1)	Very high, Very low, H, L	
13	SP Change Rate (Alarm 1)	Very high, Very low, H, L	
14	SP absolute value upper limit	Very high, Very low, H, L	
15	SP absolute value lower limit	Very high, Very low, H, L	
16	MV absolute value upper limit	Very high, Very low, H, L	
17	MV absolute value lower limit	Very high, Very low, H, L	
18	RSP absolute value upper limit	Very high, Very low, H, L	
19	RSP absolute value lower limit	Very high, Very low, H, L	

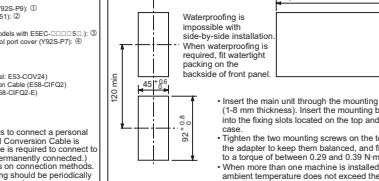
- Alarms
- Alarm output function
- Alarm type
- Alarm 1 type
- Alarm 2 type
- Alarm 3 type

## CAUTION

Minor injury due to electric shock may occasionally occur. Do not touch the terminals while power is being supplied. Electric shock, fire, or malfunction may occasionally occur if you do not follow metal objects, conductors, cuttings from installation work, or moisture to enter the Digital Controller, the Setup Tool ports, or between the pins on the connectors on the Setup Tool Cable. Attach the cover to the front-panel Setup Tool port whenever you are not using it to prevent foreign objects from entering the port.

- Suitability for Use
- OMRON Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product.

## Installation

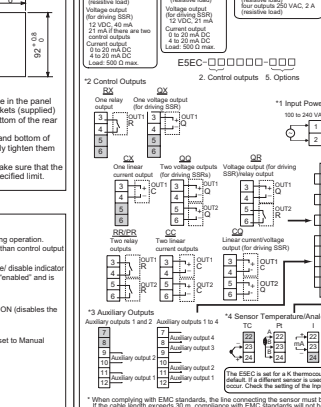


- Connections
- 1. Voltage out for driving SPS
- 2. Control outputs
- 3. Auxiliary outputs
- 4. Sensor Temperature Analog Input

## Precautions for Safe Use

- Before you observe the following precautions to prevent operation failure, malfunction, or adverse effects on the performance and function of the product.
- Do not use the product outdoors.
- Do not use or store the product in any of the following locations.

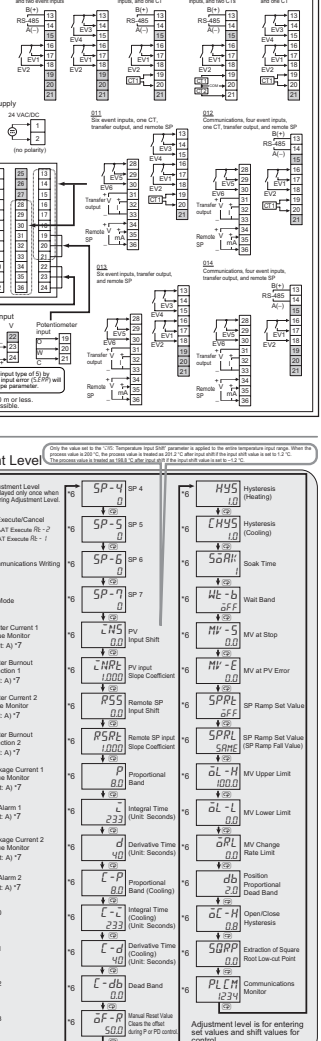
## Connections



## Specifications

- Power supply voltage: 24V AC/24V DC/50V AC/50V DC
- Power consumption: 10W (max)
- Ambient temperature: 23°C (71°F) (max)
- Indication accuracy: ±0.5% of indication value or ±1°C (±1.8°F) (max) for 20°C (68°F) and above

## Adjustment Level



- Operation Level
- POWER ON
- Operation Level
- Protection Level

## Conformance to Safety Standard

- Conformance to EN/IEC Standards
- This is a class A product.
- In residential areas it may cause radio interference, in which case the user may be required to take adequate measures to reduce interference.

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