

# E5EC OMRON

## Digital Controller

### EN INSTRUCTION MANUAL

Thank you for purchasing the OMRON E5EC 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.

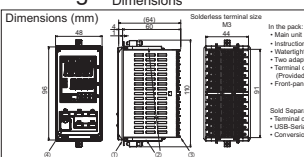
**OMRON Corporation**  
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Refer to the E5-C Digital Controllers User's Manual (Cat. No. H174) for detailed application procedures.

### Key to Warning Symbols

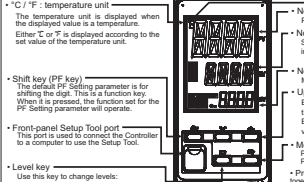
**CAUTION** Indicates a potentially hazardous situation which, if not avoided, is likely to result in minor or moderate injury or property damage. Read this manual carefully before using the product.

### Wiring



Do not remove the terminal block. Doing so may result in failure or malfunction. Setup terminals are provided on the top and front of the Digital Controller. Use these ports to connect a personal computer to the Digital Controller when using the Setup Tool. The E5S-CF02 USB-Serial Conversion Cable is required to connect to the front panel port. Do not use the USB-Serial Conversion Cable with other products. Refer to the instruction manual provided with the USB-Serial Conversion Cable for details on connection methods.

### Names of Parts on Front Panel



1. °C/°F temperature unit: The temperature unit is displayed when the displays value is a temperature. Either °C or °F is displayed according to the set value of the temperature unit.

2. Shift key (PF key): The default PF Setting parameter is for setting the digit. This is a function key. When it is pressed, the function set for the Setting parameter will operate.

3. Front-panel Setup Tool port: This port is used to connect the Controller to a computer to use the Setup Tool.

4. Level key: Use this key to change levels.

### Operation Menu

Input type	Input	Setting	Setting range
Platinum thermistor	P1100	0	-200 to 500
		1	-100 to 1500
		2	0 to 3000
Thermocouple	J1100	0	0.0 to 500.0
		1	0.0 to 210.0
Temperature inputs	J	6	-200 to 1500
		7	-100 to 1500
		8	0.0 to 500.0
		9	0.0 to 210.0
		10	0.0 to 400.0
		11	0.0 to 700.0
		12	0.0 to 1500
		13	0.0 to 3000
		14	0.0 to 500.0
		15	0.0 to 700.0
		16	0.0 to 1500
		17	0.0 to 3000
Thermosens	E110	0	0 to 250
		1	0 to 500
		2	0 to 1000
ES10	E110	0	0 to 250
		1	0 to 500
		2	0 to 1000
Current input	I	0	0 to 200mA
		1	0 to 500mA
		2	0 to 1000mA
Voltage input	V	0	0 to 250V
		1	0 to 500V
		2	0 to 1000V

### Alarms

Setting	Alarm type	Alarm output function	Positive alarm value (A)	Negative alarm value (X)
1	Deviation upper/lower limit	Alarm 1 (Hysteresis)	Alarm 1 (Hysteresis)	Alarm 1 (Hysteresis)
2	Deviation upper limit	Alarm 2 (Hysteresis)	Alarm 2 (Hysteresis)	Alarm 2 (Hysteresis)
3	Deviation lower limit	Alarm 3 (Hysteresis)	Alarm 3 (Hysteresis)	Alarm 3 (Hysteresis)
4	Deviation upper/lower range	Alarm 4 (Hysteresis)	Alarm 4 (Hysteresis)	Alarm 4 (Hysteresis)
5	Deviation upper/lower limit standby sequence ON	Alarm 5 (Hysteresis)	Alarm 5 (Hysteresis)	Alarm 5 (Hysteresis)
6	Deviation upper limit standby sequence ON	Alarm 6 (Hysteresis)	Alarm 6 (Hysteresis)	Alarm 6 (Hysteresis)
7	Deviation lower limit standby sequence ON	Alarm 7 (Hysteresis)	Alarm 7 (Hysteresis)	Alarm 7 (Hysteresis)
8	Absolute value upper limit	Alarm 8 (Hysteresis)	Alarm 8 (Hysteresis)	Alarm 8 (Hysteresis)
9	Absolute value lower limit	Alarm 9 (Hysteresis)	Alarm 9 (Hysteresis)	Alarm 9 (Hysteresis)
10	Absolute value upper limit standby sequence ON	Alarm 10 (Hysteresis)	Alarm 10 (Hysteresis)	Alarm 10 (Hysteresis)
11	Absolute value lower limit standby sequence ON	Alarm 11 (Hysteresis)	Alarm 11 (Hysteresis)	Alarm 11 (Hysteresis)
12	LBA (only for alarm 1)	Alarm 12 (Hysteresis)	Alarm 12 (Hysteresis)	Alarm 12 (Hysteresis)
13	PV Change Rate Alarm	Alarm 13 (Hysteresis)	Alarm 13 (Hysteresis)	Alarm 13 (Hysteresis)
14	SP absolute value upper limit	Alarm 14 (Hysteresis)	Alarm 14 (Hysteresis)	Alarm 14 (Hysteresis)
15	SP absolute value lower limit	Alarm 15 (Hysteresis)	Alarm 15 (Hysteresis)	Alarm 15 (Hysteresis)
16	MV absolute value upper limit	Alarm 16 (Hysteresis)	Alarm 16 (Hysteresis)	Alarm 16 (Hysteresis)
17	MV absolute value lower limit	Alarm 17 (Hysteresis)	Alarm 17 (Hysteresis)	Alarm 17 (Hysteresis)
18	RSP absolute value upper limit	Alarm 18 (Hysteresis)	Alarm 18 (Hysteresis)	Alarm 18 (Hysteresis)
19	RSP absolute value lower limit	Alarm 19 (Hysteresis)	Alarm 19 (Hysteresis)	Alarm 19 (Hysteresis)

### Conformance to Safety Standard

Reinforced insulation is provided between input power supply, relay outputs, and between other terminals. Do not allow temporary overvoltages on the primary circuit to exceed the following values.

Short-term overvoltage to the Digital Controller: 1.200 V (Power supply voltage)  
Long-term overvoltage: 250 V (Power supply voltage)

Always externally connect the recommended fuse that is specified in the instruction manual before you use the Digital Controller.

### Conformance to EN/IEC Standards

This is a residential product. In an essential area it may cause radio interference, in which case the user may be required to take adequate measures to reduce interference.

### 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. Do not allow metal objects, conductors, cuttings from installation work, or moisture to enter the Digital Controller or the Setup Tool cable, or between the pins on the connectors on the Setup Tool cable.

Do not use the product in areas subject to flammable or explosive gas. Otherwise, minor injury from explosion may occasionally occur.

Never disassemble, modify, or repair the product or touch any of the internal parts. Minor electric shock, fire, or malfunction may occasionally occur.

**CAUTION - Risk of Fire and Electric Shock**

This is the product UL listed as Open Type Process Control Equipment. It must be mounted in an enclosure that does not obstruct ventilation.

More than one disconnect switch may be required to de-energize the equipment before servicing.

Signal relays are SELV limited energy.

Caution: To reduce the risk of electric shock, do not reconnect the output of different Class 2 circuits.

If the output relays are used past their life expectancy, contact fusing or burning may occasionally occur. Always consider the application conditions and use the output relays within their rated load and electrical life expectancy. The life expectancy of output relays varies considerably with the output load and switching conditions.

Loose screws may occasionally result in fire. Tighten the terminal screws to the specified torque of 0.43 to 0.58 Nm.

The components of the product so that they are suitable for the system being controlled. If they are not suitable, unexpected operation may occasionally result in property damage or accidents.

A malfunction in the Digital Controller may occasionally make control operations impossible or prevent alarm outputs, resulting in property damage. To maintain safety in the event of malfunction or power outage, Controller, take appropriate safety measures, such as installing a monitoring device on a separate line.

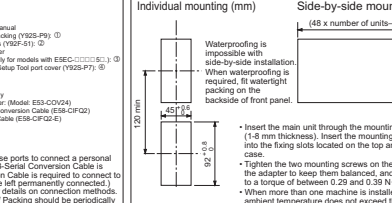
### Suitability for Use

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.

At Buyer's request, OMRON will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application. Buyer shall be solely responsible for determining appropriateness of the particular product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

### Installation



**Individual mounting (mm)**

Waterproofing is responsible with side-by-side installation. When waterproofing is required, fit waterproof packing on the backside of front panel.

Insert the main unit through the mounting hole in the panel (14.8 mm thickness). Insert the mounting brackets supplied into the fixing slots located on the top and bottom of the rear case.

Tighten the two mounting screws on the top and bottom of the adapter to keep them balanced, and finally tighten them in the order of between 0.20 and 0.30 Nm.

When more than one balance is installed, make sure that the ambient temperature does not exceed the specified limit.

**Side-by-side mounting (mm)**

(48 x number of units - 2.5)

### Precautions for Safe Use

Be sure to observe the following precautions to prevent operation failure, malfunction, or adverse effects on the performance and functions of the product. Do not do so may occasionally result in unexpected events. Use the product within the specified conditions.

- The product is designed for indoor use only. Do not use the product outdoors. Do not use or store the product in the following locations:
  - Places directly subject to heat radiated from heating equipment.
  - Places subject to dust or corrosive gas (in particular, sulfide gas and ammonia gas).
  - Places subject to direct sunlight.
  - Places subject to vibration and large shocks.
  - Places subject to intense temperature change.
- Use the product within the rated temperature and humidity ranges. Provide forced-cooling if required.
  - Do not block the ventilation holes on the product.
  - Do not allow heat to escape, do not block the area around the product.
  - Do not block the ventilation holes on the product.
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JPN 取扱説明書

このたびは、オムロン製品をお買い上げいただきまして、まことにありがとうございます。この取扱説明書では、この製品を使用する上で、必要な性能、使用方式などの情報を記載しています。この製品を「使用」して下さることを前提として、この取扱説明書をお読みください。

この取扱説明書をお読みになり、十分にご理解のうえ、正しくご使用ください。この取扱説明書はいつでも参照できるように保管ください。

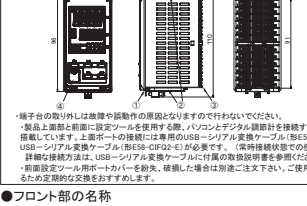
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詳細な使用方法は別冊「形E5ECユーザーズマニュアル」(カタログ番号:SGDT-740)を参照してください。

安全上の注意

警告表示の意味
正しい取扱いをしなければ、この危険のために、時に軽微な事故や怪我の原因となる可能性があります。必ず警告表示を受けるお読みになり、十分にご理解ください。

配線



端子台の取付方法は図面や取付書の裏面と必ず一致してください。
電源線と信号線を同時に接続する場合は、必ずデジタル調音計を接続するための専用電源ケーブル(型番:SGE5-GF02)を、電源線の接続には専用のUSBケーブル(型番:SGE5-GF01)が必要です。

フロント部の名称



操作メニュー

Table with columns for '入力種別' (Input Type), '仕様' (Specifications), '設定値' (Set Values), and '設定範囲' (Set Range). It lists various input types like Pt100, JPt100, and their corresponding settings.

警告表示

Table with columns for '設定種別' (Setting Type), '警報種別' (Alarm Type), '警報出力機能' (Alarm Output Function), and '警報値(X)が負' (Alarm Value (X) is Negative). It details alarm settings for upper and lower limits.

EN/IEC規格対応について

この製品は[Class A] (工業用製品)です。任意に電磁干渉を利用すると、電磁波の原因となる可能性があります。この場合に電磁波に対する適切な対策が必要となります。

警告表示

- 注意: 電源ケーブルの取付時に必ず確認してください。
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ご承諾事項

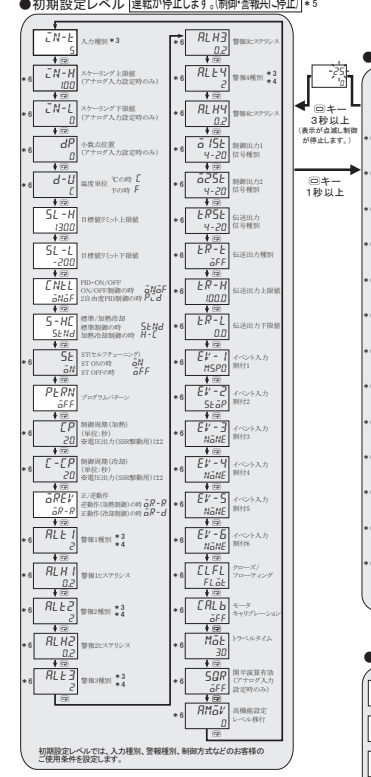
- 1. 本製品は、一般工業用向けの商品として設計されています。
2. 本製品の取付や使用には、必ず取扱説明書に記載の注意事項を必ず守ってください。

取付付け



個別取付のとき(単位mm)
密集取付のとき(単位mm)
取付方法は、実装面(長さ8mm)の穴へ入れ、付属のオメガワッシャーの上面と下面の両面に押し込んでください。

初期設定レベル



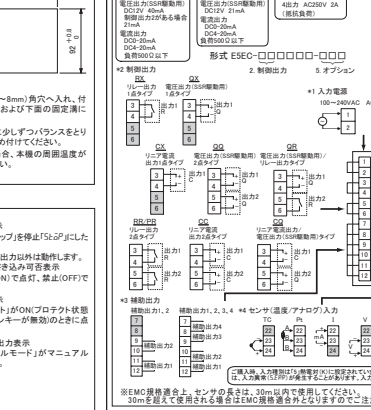
安全規格対応について

入力電源 - 1レ線出力 - その他の端子相互は絶縁構造になっています。
主電源と発生する一時過電圧は以下の値を超えてはなりません。

安全上の要点

- 1. 本製品の動作は、動作時には常に「検出」の表示が点灯し、以下のことを守って下さい。
2. 本製品の動作は、動作時には常に「検出」の表示が点灯し、以下のことを守って下さい。

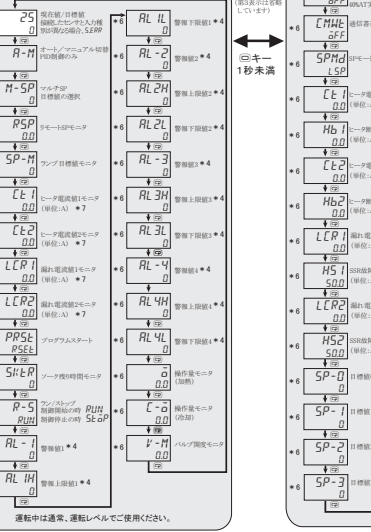
接続(機種によって端子の用途は異なります。)



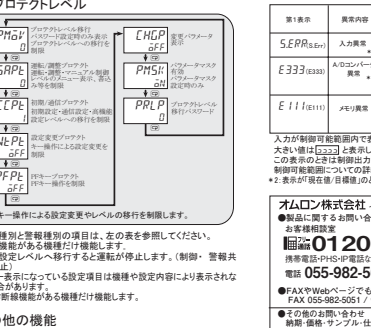
電源投入

電源投入する前に確認してください。
電源投入する前に確認してください。

運転レベル



プロトタイプ



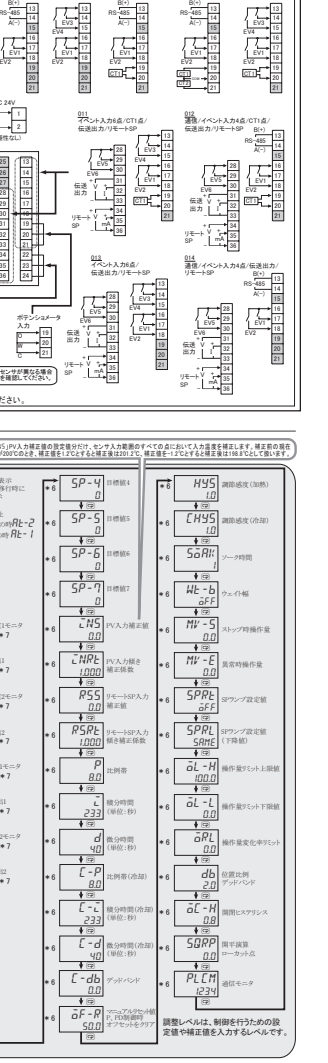
その他の機能

「警報種別」は「設定項目」で「設定項目」を「設定項目」に設定してください。
「警報種別」は「設定項目」で「設定項目」を「設定項目」に設定してください。

仕様

- 電源電圧: AC100-240V 50/60Hz
許容電圧変動範囲: ±10%
消費電力: オフ状態: 0.1W (AC100-240V)

調整レベル



異常時の表示について(トラブルシューティング)

Table with columns for '異常内容' (Abnormality Content), '原因' (Cause), '対応' (Response), '警報出力機能' (Alarm Output Function), and '警報値(X)が負' (Alarm Value (X) is Negative). It lists error codes like E333 and E111.

オムロン株式会社

オムロン株式会社 インダストリアルオートメーションビジネスセンター
お問い合わせ先: 020-919-0666