

EN INSTRUCTION MANUAL

Thank you for purchasing the OMRON E5GC 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 E5GC Digital Controllers User's Manual (Cat. No. H174) for detailed application procedures.

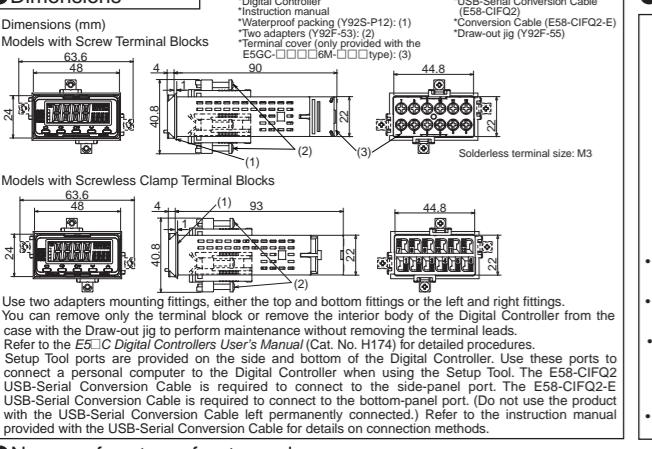
Safety Precautions

CAUTION

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

Wiring

Dimensions

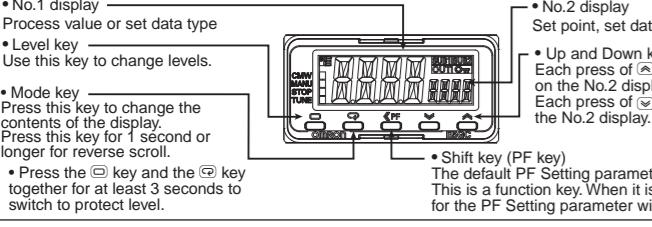


Use two sets of mounting hardware (one left and right fittings) to mount onto the Digital Controller. You can remove only the terminal block or remove the interior body of the Digital Controller from the case with the Draw-out kit for maintenance without removing the terminal leads.

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Serial port connection: To connect the serial port of a personal computer to the Digital Controller when using the Setup Tool. The E58-CIFQ2-E USB-to-Serial Conversion Cable is required to connect to the serial port. Never use the product with the USB-to-Serial Conversion Cable left permanently connected. Refer to the instruction manual provided with the USB-to-Serial Conversion Cable for details on connection methods.

Names of parts on front panel



Operation Menu

Input Type

Input Type	Input	Setting	Setting range
Platinum resistance thermometer	Pt100	0 ~ 2000 to 800	300 to 1500
		1 ~ 199.9 to 500.0	-199.9 to 900.0
		2 ~ 0.9 to 100.0	0.0 to 210.0
		3 ~ 0.0 to 100.0	0.0 to 200.0
Thermocouple	K	5 ~ 200 to 1300	-300 to 2300
	J	6 ~ 200 to 500.0	-300 to 1500
	T	8 ~ 200 to 400.0	0.0 to 750.0
	E	10 ~ 200 to 400.0	0.0 to 750.0
	L	11 ~ 200 to 600	-300 to 1100
	U	12 ~ 100 to 850	100 to 1500
	A	14 ~ 199.9 to 400.0	-199.9 to 700.0
	N	15 ~ 200 to 1300	-300 to 2300
	R	16 ~ 0.1 to 170.0	0.0 to 300.0
	S	17 ~ 0.1 to 170.0	0.0 to 300.0
	B	18 ~ 100 to 1800	300 to 3200
	W	19 ~ 0.1 to 2300	0.0 to 3200
Infrared Thermosensor	ES1B	PIU	0 to 100°C
Analog	Current input	4 ~ 20 mA	25
	Voltage input	0 to 20 mV	25
		Use the following ranges for scaling: -199.9 ~ 2899.9 to 999.9 ~ -19.99 to 9.999.	
		0 to 5 V	28
		0 to 10 V	29

The default is "S".

"S" will be displayed when a platinum resistance thermometer is mistakenly connected while input type is not set for it. To clear the SELPF display, connect the wiring and cycle the power supply.

Alarms

Setting	Alarm type	Positive alarm value (X)	Negative alarm value (X)
0	No alarm function		
1	Deviation upper/lower limit	ON	OFF
2	Deviation upper limit	ON	OFF
3	Deviation lower limit	ON	OFF
4	Deviation upper/lower range	ON	OFF
5	Deviation upper/lower limit sequence ON	ON	OFF
6	Deviation upper limit sequence ON	ON	OFF
7	Deviation lower limit sequence ON	ON	OFF
8	Absolute value upper limit	ON	OFF
9	Absolute value lower limit	ON	OFF
10	Absolute value upper limit sequence ON	ON	OFF
11	Absolute value lower limit sequence ON	ON	OFF
12	LBA (only for alarm 1)		
13	PV Change Rate Alarm		
14	SP absolute value upper limit	ON	OFF
15	SP absolute value lower limit	ON	OFF
16	MV absolute value upper limit	ON	OFF
17	MV absolute value lower limit	ON	OFF

Upper and lower limits can be set for parameters 1, 4 and 5 to provide for different types of alarm. These are indicated by the letter "L" and "H".

The default alarm type is "2".

Conformance to En/IEC Standards

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