

E5DC

OMRON

Digital Controller

EN INSTRUCTION MANUAL

Thank you for purchasing the OMRON E5DC 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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裏面は日本語です。

Refer to the E5DC Digital Controllers User's Manual (Cat. No. H174) for detailed application procedures.

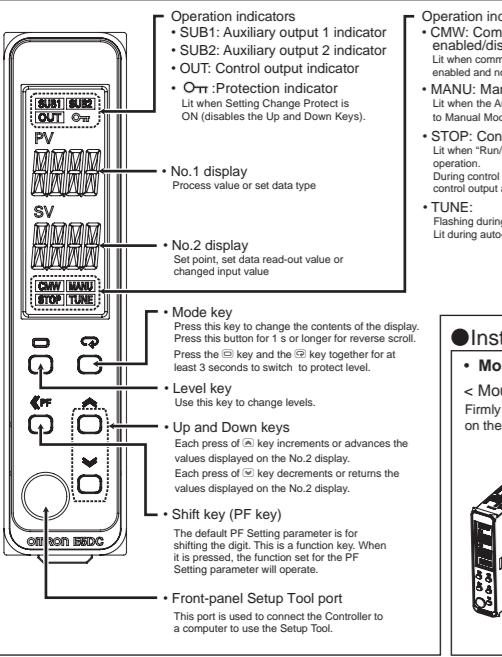
Safety Precautions

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

Names of Parts on Front Panel

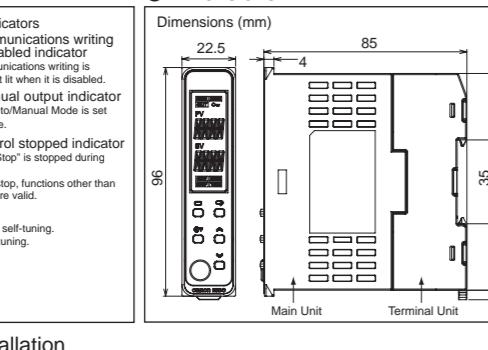


Suitability for Use

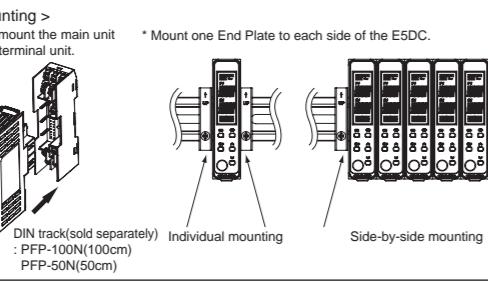
Omrn Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, omrn may supply information which may be helpful for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be 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(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

Dimensions



Connections



Operation Menu

Input Type

Input type	Input	Setting	Setting range
Pt100	0	-200 to 850	-300 to 1500
	2	-199.9 to 500.0	-193.2 to 900.0
JPt100	3	-199.9 to 500.0	-199.9 to 900.0
	4	0.0 to 100.0	0.0 to 210.0
K	6	-200 to 500.0	-100 to 900.0
	7	-100 to 850	-100 to 1500
T	8	-200 to 400.0	0 to 750.0
E	10	-199.9 to 400.0	-199.9 to 700.0
L	11	-200 to 600	-300 to 1100
U	13	-200 to 400	-300 to 700
N	14	-199.9 to 400.0	-199.9 to 700.0
R	16	0 to 1700	0 to 3000
S	17	0 to 1700	0 to 3000
F	18	0 to 1800	0 to 3200
V	19	0 to 2000	0 to 3000
Pt110	20	0 to 1300	0 to 2300
Infrared	21	0 to 90	0 to 190
Thermocouple	22	0 to 165	0 to 320
ES1B	23	0 to 165	0 to 320
	115 to 165°C	0 to 260	0 to 500
Average	24	0 to 200	0 to 500
	25	0 to 200	0 to 500
Current input	26	0 to 20mA	0 to 20mA
Voltage input	27	0 to 5V	0 to 9.99
	0 to 10V	28	-1999 to 9.99
	0 to 5V	29	-1999 to 9.99
	0 to 10V	30	-1999 to 9.99

The default is "S".

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

Alarms

Setting

Alarm type

Alarm output function

Positive alarm value (X)

Negative alarm value (X)

Output off

Deviation upper/lower limit

ON

OFF

L⁺, H⁺ values

ON

OFF

Deviation upper limit

ON

OFF

L⁺, H⁺ values

ON

OFF

Deviation lower limit

ON

OFF

L⁺, H⁺ values

ON

OFF

Absolute value upper limit

ON

OFF

L⁺, H⁺ values

ON

OFF

Absolute value lower limit

ON

OFF

L⁺, H⁺ values

ON

OFF

Absolute value upper limit

ON

OFF

L⁺, H⁺ values

ON

OFF

Absolute value lower limit

ON

OFF

L⁺, H⁺ values

ON

OFF

PV Change Rate Alarm

ON

OFF

SP absolute value upper limit

ON

OFF

SP absolute value lower limit

ON

OFF

MV absolute value upper limit

ON

OFF

MV absolute value lower limit

ON

OFF

LBA (only for alarm 1)

ON

OFF

SP absolute value upper limit

ON

OFF

SP absolute value lower limit

ON

OFF

MV absolute value upper limit

ON

OFF

MV absolute value lower limit

ON

OFF

LBA (only for alarm 1)

ON

OFF

SP absolute value upper limit

ON

OFF

SP absolute value lower limit

ON

OFF

MV absolute value upper limit

ON

OFF

MV absolute value lower limit

ON

OFF

LBA (only for alarm 1)

ON

OFF

SP absolute value upper limit

ON

OFF

SP absolute value lower limit

ON

OFF

MV absolute value upper limit

ON

OFF

MV absolute value lower limit

ON

OFF

LBA (only for alarm 1)

ON

OFF

SP absolute value upper limit

ON

OFF

SP absolute value lower limit

ON

OFF

MV absolute value upper limit

ON

OFF

MV absolute value lower limit

ON

OFF

LBA (only for alarm 1)

ON

OFF

SP absolute value upper limit

ON

OFF

SP absolute value lower limit

ON

OFF

MV absolute value upper limit

ON

OFF

MV absolute value lower limit

ON

OFF

LBA (only for alarm 1)

ON

OFF

