

# E5AN-H/E5EN-H

(96 x 96 mm and 48 x 96 mm)

CSM\_E5AN-H\_E5EN-H\_DS\_E\_3\_13

## A New High-performance Controller: High Resolution, High Speed, and High Input Accuracy. Logic Operations and Preventive Maintenance Function. Plus Infrared Port on Front Panel.

- High-resolution display with 5 digits/0.01°C display.
- High-speed sampling cycle of 60 ms.
- High Accuracy  
Thermocouple/Pt input:  $\pm 0.1\%$  of PV  
Analog input:  $\pm 0.1\%$  FS
- Universal inputs on all models (thermocouple, PT, or analog input) to handle various sensors with one Controller. Models also available with Remote SP.
- A PV/SV-status display function can be set to automatically alternate between displaying the status of the Temperature Controller (auto/manual, RUN/STOP, and alarms) and the PV or SV.
- Flexible contact outputs with logic operations (AND, OR, and delays) set from the Support Software (CX-Thermo Ver. 4.0)
- Preventive maintenance for relays in the Temperature Controller using a Control Output ON/OFF Counter.
- Model available with position-proportional control



96 × 96 mm  
E5AN-H

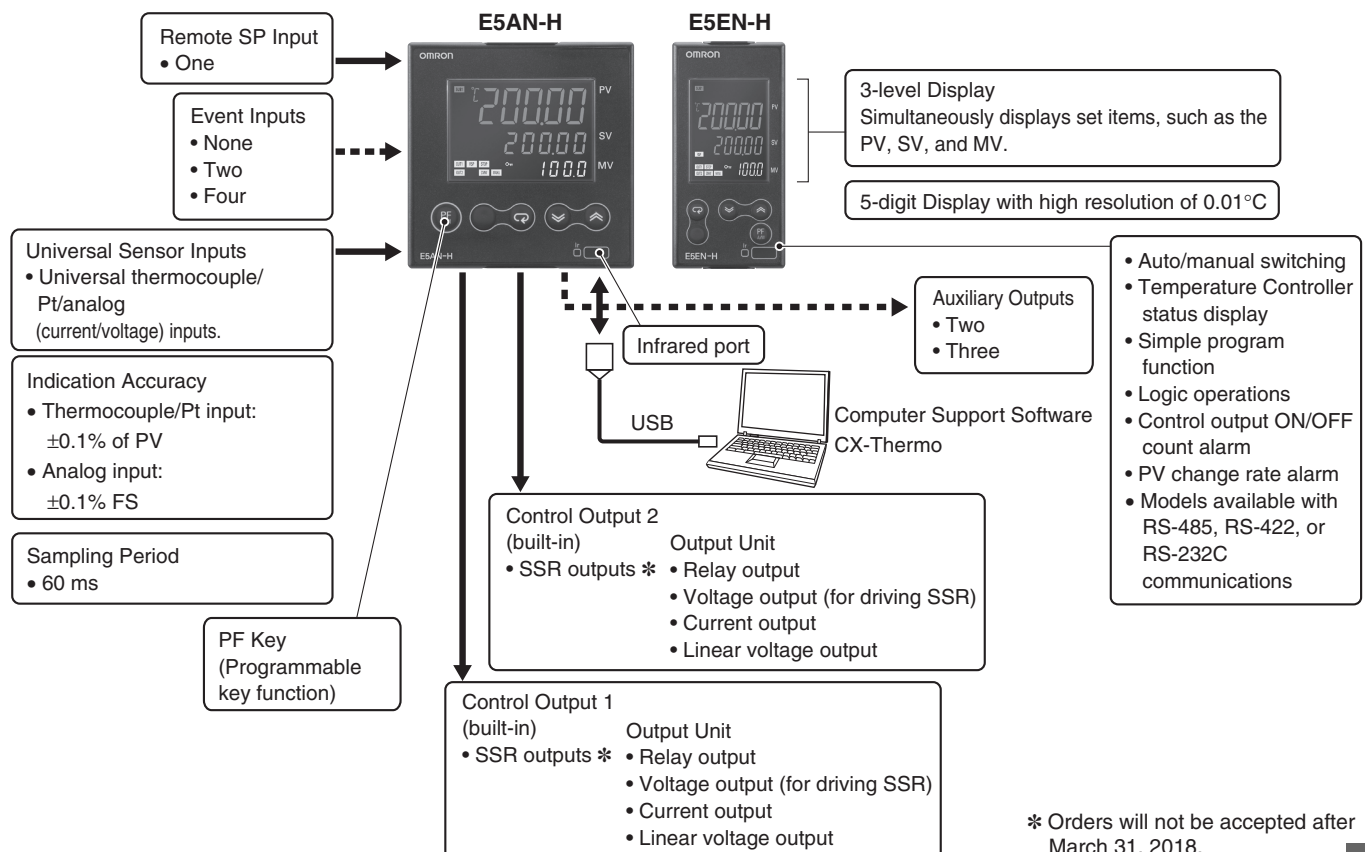
48 × 96 mm  
E5EN-H

For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

E5AN-HSS□-500, E5EN-HSS□-500 in this catalog have been discontinued at the end of March 2018.

Refer to *Safety Precautions for E5□N/E5□N-H*.  
Refer to *Operation for E5□N/E5□N-H* for operating procedures.

## Main I/O Functions



\* Orders will not be accepted after March 31, 2018.

## Lineup



**Note:** The Controller can be used for heating/cooling control even if only 1 control output is used.

## Model Number Structure

### Model Number Legend

#### Controllers

E5AN/E5EN-                        M  -  -500

1 2 3 4 5 6 7 8 9 10 11

#### 1. Type

H: Advanced

#### 2. Control Mode

Blank: Standard or heating/cooling control  
P: Position-proportional control

#### 3. Control Output 1

A: Control Output Unit  
R: Relay output  
S: SSR output \*

#### 4. Control Output 2

A: Control Output Unit  
R: Relay output  
S: SSR output \*

#### 5. Auxiliary Outputs

2: Two outputs  
3: Three outputs

#### 6. Option 1

Blank: None  
H: Heater burnout/SSR failure/Heater overcurrent detection (CT1)  
HH: Heater burnout/SSR failure/Heater overcurrent detection (CT2)

#### 7. Option 2

B: Two event inputs  
BF: Event input + Transfer output

#### 8. Option 3

M: Option Unit can be mounted.

#### 9. Power Supply Voltage

Blank: 100 to 240 VAC  
D: 24 VAC/VDC

#### 10. Case Color

Blank: Black  
W: Silver

#### 11. Terminal Cover

-500: With Terminal Cover

#### Option Units

E53-  

1

#### 1. Function

EN01: RS-232C communications  
EN02: RS-422 communications  
EN03: RS-485 communications  
AKB: Event input

#### Output Units

E53-    

1 2

#### 1. Control Output

R: Relay output  
Q: Voltage output (for driving SSR)  
Q3: Voltage output (for driving SSR) + 24 VDC (NPN)  
Q4: Voltage output (for driving SSR) + 24 VDC (PNP)  
C3: Current output + 4 to 20 mA DC  
C3D: Current output + 0 to 20 mA DC  
V34: Linear voltage output + 0 to 10 VDC  
V35: Linear voltage output + 0 to 5 VDC

#### 2. Version

Blank: Available for E5AN-E5EN-H.  
N: Available only for E5AN-H/E5EN-H.

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This data sheet is provided as a guideline for selecting products. Be sure to refer to the following user manuals for application precautions and other information required for operation before attempting to use the product.

E5CN-H/E5AN-H/E5EN-H Digital Controllers User's Manual Advanced Type (Cat. No. H157)

E5CN-H/E5AN-H/E5EN-H Digital Controllers Communications Manual Advanced Type (Cat. No. H159)