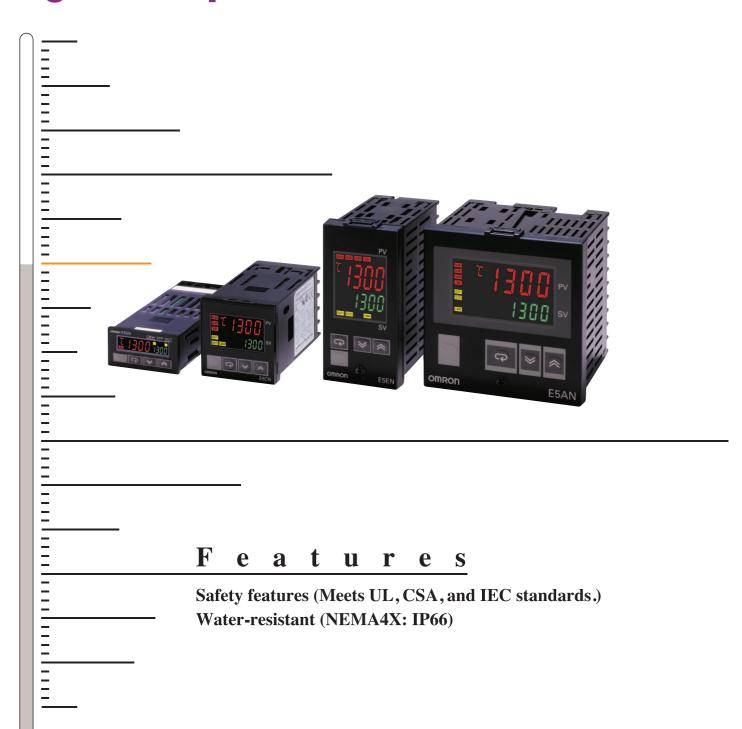


E5AN/E5EN/E5CN/E5GN

1/4 DIN, 1/8 DIN, 1/16 DIN and 1/32 DIN Digital Temperature Controllers





Compact and Intelligent General-purpose Temperature Controllers E5AN/E5EN/E5CN/E5GN

The E5AN (1/4 DIN), E5EN (1/8 DIN), E5CN (1/16 DIN) and E5GN (1/32 DIN) are OMRON's standard Temperature Controllers.

E5_N series meet various demands from basic to advanced applications

Basic function

- · Control mode is selectable from ON/OFF control and 2-PID
- · Auto-tuning is available while self-tuning

Advanced function

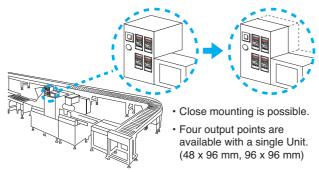
- · Heating and Cooling
- · Communication (RS485, RS232C)
- · Event input for RUN/STOP or Multi SP
- · Various alarms including standby sequence, alarm latch
- · Input digital filter
- SP ramp
- PV color change (E5CN only)
- MV limit
- · Input error output

Compact



General Industrial Machinery

Control panels can be made thinner.



48 x 24-mm surface area is 1/2 that of the 48 x 48 mm model.



DIN 24 x 48 mm

 Food Processing Machinery Compact Table-top Filling Machine Incorporation into small installations is also possible.



Event input

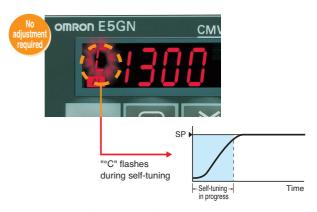
Heater burnout alarm

Heating and cooling control

Water tight structure: NEMA4X

Safety standard: UL, CSA, IEC

Easy



All of the handy functions, such as run/stop and auto-tuning, can be operated from the keys on the front panel.

Selftuning Autotuning

Auto-tuning can be executed during self-tuning.

PV color change (E5CN only)

Check conditions with changing PV temperature colors (green and red).

- The color of the PV temperature display shows the operating condition (normal/malfunction) at a
- glance.
 Enables quick response when a malfunction occurs.



Intelligent

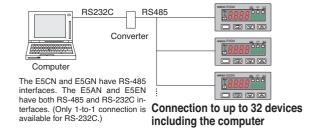
All models have a version equipped with a communications function.

Support software that allows setting from a computer is also available. Multi-channel connections make for improved operability.



Control is possible via connections to up to 32 devices including a computer or Programmable Controller.

System Configuration (for Computer)



Energy-saving

Improved reliability by energy-saving

New type of power unit and LCD display enables energy savings

Improved reliability from less internal heat



Ordering Information

П
1
П
4
1
П

 E5AN Standard Model

Size	Power supply voltage	No. of alarm points	Control output	Heater burnout alarm	Thermocouple model	Platinum resistance thermometer model
1/4 DIN	100 to 240 VAC	3	Relay	No	E5AN-R3MTC-500	E5AN-R3MP-500
96(W) x 96(H) x 78(D) mm	or 24 VAC/VDC			Yes	E5AN-R3HMTC-500	E5AN-R3HMP-500
			Voltage (for driving SSR)	No	E5AN-Q3MTC-500	E5AN-Q3MP-500
				Yes	E5AN-Q3HMTC-500	E5AN-Q3HMP-500
			Current	No	E5AN-C3MTC-500	E5AN-C3MP-500

● E5EN Standard Models

Size	Power supply voltage	No. of alarm points	Control output	Heater burnout alarm	Thermocouple model	Platinum resistance thermometer model
1/8 DIN	100 to 240 VAC	3	Relay	No	E5EN-R3MTC-500	E5EN-R3MP-500
48(W) x 96(H) x 78(D) mm	or 24 VAC/VDC			Yes	E5EN-R3HMTC-500	E5EN-R3HMP-500
			Voltage (for driving SSR)	No	E5EN-Q3MTC-500	E5EN-Q3MP-500
				Yes	E5EN-Q3HMTC-500	E5EN-Q3HMP-500
			Current	No	E5EN-C3MTC-500	E5EN-C3MP-500

● E5AN/E5EN Option Units

Name	Model	Function	
Communication Unit	E53-AK01	RS-232C communication	
	E53-AK03	RS-485 communication	
Event Input Unit	E53-AKB	Event input	

E5CN

● E5CN Standard Models

Size	Power supply voltage	No. of alarm points	Output	Thermocouple model	Platinum resistance thermometer model	
1/16 DIN	100 to 240 VAC		Relay	E5CN-RMTC-500	E5CN-RMP-500	
48(W) x 48(H) x 78(D) mm	24 VAC/VDC	24 VAC/VDC		Voltage output (for driving SSR)	E5CN-QMTC-500	E5CN-QMP-500
		2	Relay	E5CN-R2MTC-500	E5CN-R2MP-500	
			Voltage output (for driving SSR)	E5CN-C2MTC-500	E5CN-C2MP-500	

● E5CN Option Units

Name	Model	Function
Communication Unit	E53-CNH03 (For relay and voltage output)	RS-485 communication and heater burnout alarm
	E53-CN03 (For current output)	RS-485 communication
Event Input Unit	E53-CNHB (For relay and voltage output)	Event input and heater burnout alarm
	E53-CNB (For current output)	Event input

E5GN

● E5GN Standard Models

	Size	Power supply voltage	No. of alarm points	Output	Thermocouple model	Platinum resistance thermometer model
	1/32 DIN 48(W) x 24(H) x 100(D) mm	100 to 240 VAC		Relay	E5GN-RTC	E5GN-RP
-	40(VV) X 24(H) X 100(D) IIIIII	or 24 VAC/VDC		Voltage output (for driving SSR)	E5GN-QTC	E5GN-QP
			1 (see note 1)	Relay	E5GN-R1TC	E5GN-R1P
		(see note 1)	Voltage output (for driving SSR)	E5GN-Q1TC	E5GN-Q1P	

● E5GN Communication Models

Size	Power supply voltage	Communication function	Output	Thermocouple model	Platinum resistance thermometer model
1/32 DIN	100 to 240 VAC	RS-485	Relay	E5GN-R03TC-FLK	E5GN-R03P-FLK
48(W) x 24(H) x 100(D) mm	24 VAC/VDC		Voltage output (for driving SSR)	E5GN-Q03TC-FLK	E5GN-Q03P-FLK

Cat. No. H108-E1-03 In the interest of product improvement, specifications are subject to change without notice.

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