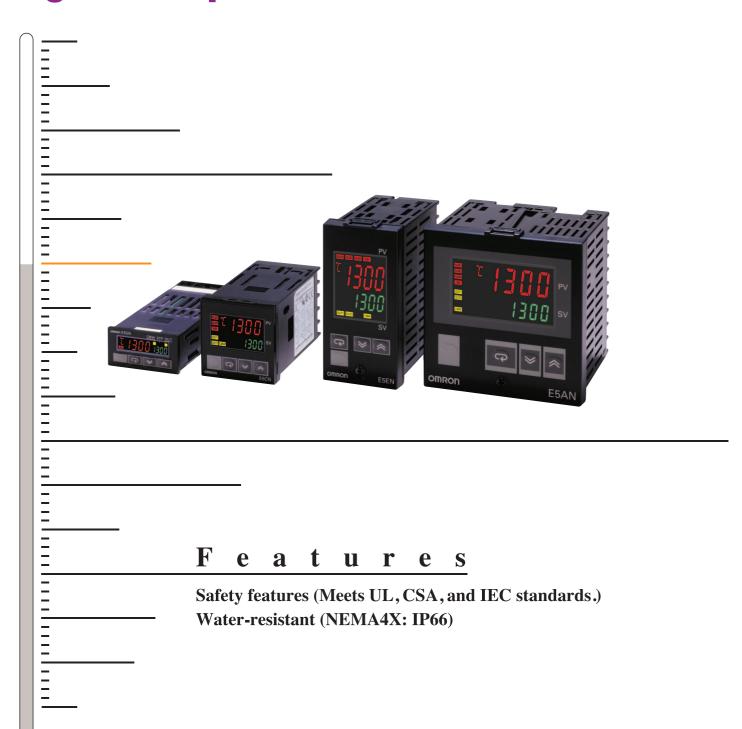


# E5AN/E5EN/E5CN/E5GN

# 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

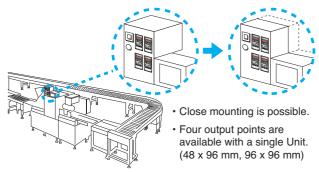
- Heating and Cooling
- · Communication (RS485, RS232C)
- Event input for RUN/STOP or Multi SP
- · Various alarms including standby sequence, alarm latch
- · Input digital filter
- SP ramp
- PV color change (E5CN only)
- MV limit
- · Input error output

# 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.

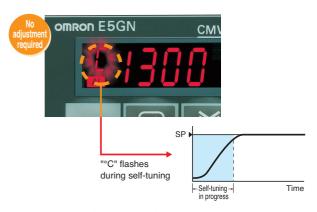


• Food Processing Machinery
Compact Table-top Filling Machine
Incorporation into small installations
is also possible.



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**

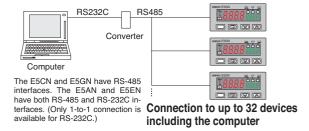
# All models have a version equipped with a communications function.

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**

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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	100 to 240 VAC 3 24 VAC/VDC	Relay	No	E5AN-R3MTC-500	E5AN-R3MP-500
96(W) x 96(H) x 78(D) mm				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
F5EN Standard Mo	dels					
● E5EN Standard Mo Size	dels Power supply voltage	No. of alarm points	Control output	Heater burnout alarm	Thermocouple model	:
Size 1/8 DIN	Power supply voltage 100 to 240 VAC	No. of alarm points				Platinum resistance thermometer mode E5EN-R3MP-500
Size	Power supply voltage	•	Control output	Heater burnout alarm	Thermocouple model	Platinum resistance thermometer mode
Size 1/8 DIN	Power supply voltage  100 to 240 VAC or	•	Control output	Heater burnout alarm	Thermocouple model ESEN-R3MTC-500	Platinum resistance thermometer mode E5EN-R3MP-500
1/8 DIN	Power supply voltage  100 to 240 VAC or	•	Control output Relay	Heater burnout alarm No Yes	Thermocouple model ESEN-R3MTC-500 ESEN-R3HMTC-500	Platinum resistance thermometer mode E5EN-R3MP-500 E5EN-R3HMP-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

Size	Power supply voltage	No. of alarm points	Output	Thermocouple model	Platinum resistance thermometer mode
1/16 DIN	100 to 240 VAC		Relay	E5CN-RMTC-500	E5CN-RMP-500
l8(W) x 48(H) x 78(D) mm	or 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
					20011 02 000
E5CN Option Units	1				255.1 521111 555
E5CN Option Units	1		Model		unction
Name	;	E53-CNH03 (For	Model relay and voltage output)		unction
Name		E53-CNH03 (For ct	relay and voltage output)	Fi	unction
E5CN Option Units Name Communication Unit	5	E53-CN03 (For cu	relay and voltage output)	Ft RS-485 communication and he	unction eater burnout alarm

15GN

Size	Power supply voltage	No. of alarm points	Output	Thermocouple model	Platinum resistance thermometer model
1/32 DIN 18(W) x 24(H) x 100(D) mm	100 to 240 VAC or 24 VAC/VDC		Relay	E5GN-RTC	E5GN-RP
+0(VV) X 24(H) X 100(D) IIIIII			Voltage output (for driving SSR)	E5GN-QTC	E5GN-QP
	1 (:	1 (see note 1)	Relay	E5GN-R1TC	E5GN-R1P
			Voltage output (for driving SSR)	E5GN-Q1TC	E5GN-Q1P
E5GN Communicat	ion Models Power supply voltage	Communication function	Output	Thermocouple model	Platinum resistance thermometer model
		Communication function RS-485	<b>Output</b> Relay	Thermocouple model E5GN-R03TC-FLK	Platinum resistance thermometer mode E5GN-R03P-FLK

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

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