

Channel ACTION ALERT!



NO: TC-045
DATE: August 2011

PRODUCT: E5ZN Temperature Controllers
TYPE: Discontinuation Notice

E5ZN(G) Temperature Controllers Discontinued April 30, 2011; Replace with EJ1G Models

The E5ZN(G) in-panel modular temperature controllers were discontinued due to lack of available parts at the end of April 2011. The recommended replacement is EJ1G modular temperature controller. There are significant differences between the models, so an amount of design change is required to Communications, Programming, unit setting and other key performance parameters. Omron will provide repair and maintenance service for seven years after product discontinuation.

Discontinued Parts and Suggested Replacements



E5ZN-2CN03P-309
E5ZN-DRT-309
E5ZN(G) Series
(Not fully included)



EJ1G Series

Discontinued Model	Recommended Replacement
E5ZN-2CN03P-309 DC24	None
E5ZN-2CN03TC-309 DC24	None
E5ZN-2CP03P-309 DC24	None
E5ZN-2CP03TC-309 DC24	None
E5ZN-2QNH03P-309 DC24	EJ1G-TC2A-QNH
E5ZN-2QNH03TC-309 DC24	EJ1G-TC2A-QNH
E5ZN-2TPH03P-309 DC24	EJ1G-TC2A-QNH
E5ZN-2TPH03TC-309 DC24	EJ1G-TC2A-QNH
E5ZN-DRT-309 DC24	EJ1G-HFUA-NFLK

Note:

1. EJ1G does not offer built-in DeviceNet (DRT) communications. It has ladder-less communications with an Omron PLC.
2. The end unit EJ1C-EDUA-NFLK is necessary for each system.

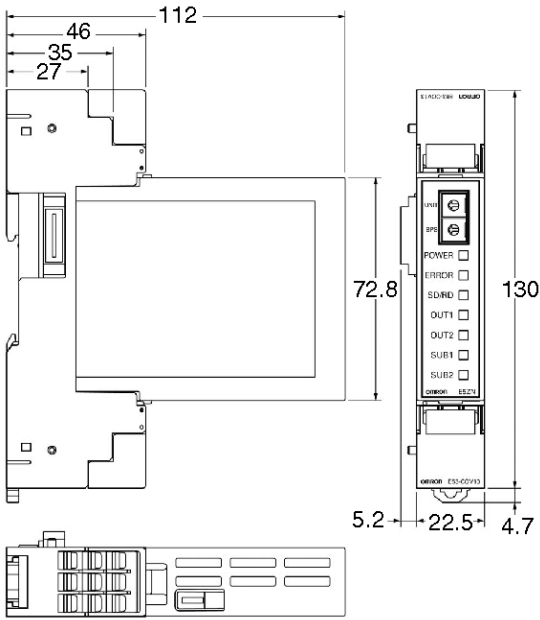
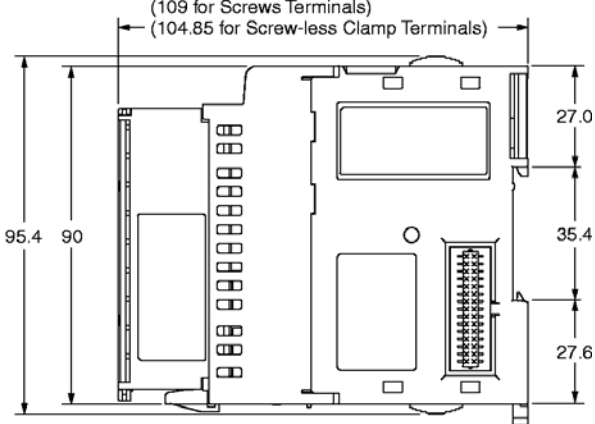
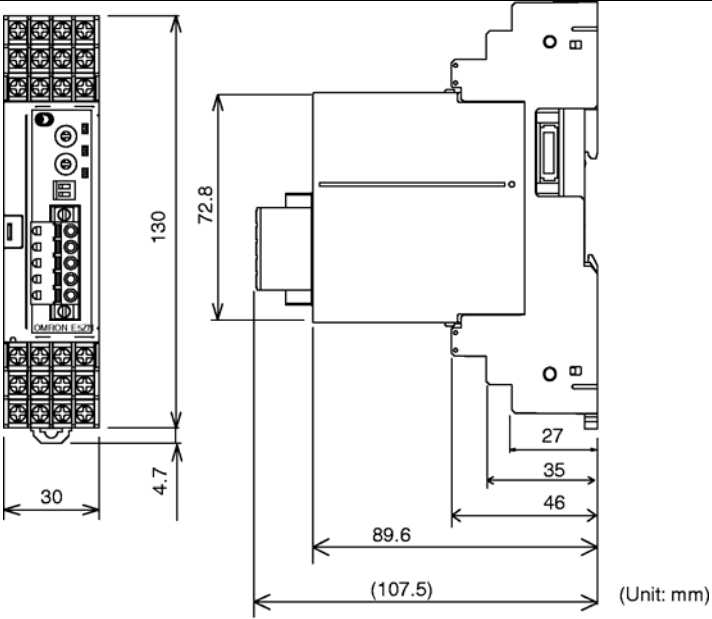
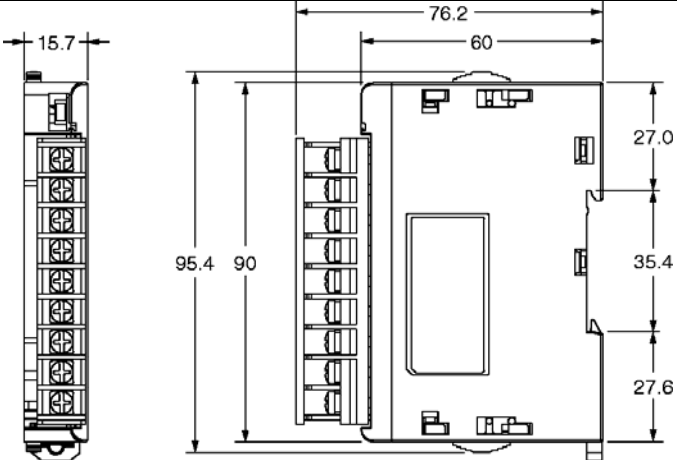
Detailed Comparison

See the following pages for a detailed comparison of specifications and dimensions.

Reference Documentation

Description	Media	Publication No.
E5ZN Modular 2-Channel Temperature Controller Data Sheet	PDF	CSM E5ZN DS E 3.1
E5ZN Temperature Controller Operation Manual	PDF	H113-E1-03B
E5ZN-DRT DeviceNet Comms. Unit for E5ZN Temperature Controllers Operation Manual	PDF	H119-E1-1
EJ1 Modular Temperature Controller User's Manual	PDF	H142-E1-04
EJ1 DeviceNet Communications Unit Operation Manual, EJ1N-HFUB-DRT	PDF	H155-E1-02A

Dimensions (Unit: mm)

Product Discontinuation	Recommended Replacement
<p>E5ZN-2□□□□□-309 with E5ZN-SCT18S-500</p> 	<p>EJ1G-TC2A-QNH and EJ1G-HFUA-NFLK</p> <p>(109 for Screws Terminals) (104.85 for Screw-less Clamp Terminals)</p> 
<p>E5ZN-DRT-309 with E5ZN-SCT24S-500</p>  <p>(Unit: mm)</p>	<p>EJ1C-EDUA-NFLK</p> 

Characteristics

Item	Product Discontinuation	Recommended Replacement
	E5ZN-309 series	EJ1G series
Supply voltage	24 VDC	24 VDC
Power consumption	3W	TC4: 5W max.; TC2A: 4W max.
Input type	Thermocouple: K, J, R, S, T, E, B, N, L, U, W, PL II Platinum resistance: Pt100, JPt100	
Control output	Voltage output (with short-circuit protecting function) ON: 12 VDC $\pm 15\%$ Max. load current: 21 mA DC Current output Rated output range: 4 to 20 mA DC Max. load resistance: 350 Ω per point Open corrector output (NPN/PNP) Max. applied voltage: 30 VDC	Voltage output (with short-circuit protecting function) ON: 12 VDC $\pm 15\%$ Max. load current: 21 mA DC Open corrector output (NPN) Max. applied voltage: 30 VDC
No of input control points	2 input and 2 control points	TC4: 4 inputs, 4 control outputs TC2: 2 inputs, 2 control outputs
Control modes	GTC	GTC or PID
Measurement accuracy	($\pm 0.5\%$ of process value or $\pm 1^\circ\text{C}$, whichever greater) ± 1 digit max.	($\pm 0.5\%$ of process value or $\pm 1^\circ\text{C}$ whichever greater) ± 1 digit max.
Sampling period	500ms	250ms
Communications method	DeviceNet	RS-232C/RS-485 (HFU unit) RS-422 (HFU unit) RS-485 (EDU unit) for CX-Thermo
Baud rate	DeviceNet 125k/250k/500k bit/s	RS-485/RS-422/RS-232C (HFU) 9600/19200/38400/57600/115200bit/s RS-485 (EDU) 38400bit/s
Communications protocol	DeviceNet	Omron PLC protocol, MC protocol (form 5), AnA/AnU CPU protocol