## **E5\_C Series Temperature Controllers**

## **Navigation Guide**

















**Quick Link** M436

Product Line	E5GC (1/32 DIN)	E5CC-U (1/16 DIN socket mounted)	E5DC (22.5 (w) socket mount)	E5AC (1/4 DIN), E5EC (1/8 DIN), E5CC (1/16 DIN)	E5AC-T (1/4 DIN), E5EC-T (1/8 DIN), E5CC-T (1/16 DIN)
Selling Tips	Panel Mounted So ms High Speed sampling allows more precise heater control Removable screw or spring clamp terminal blocks (depending on model) Parameters can be configured using CX-Thermo	Socket mounted     50 ms High Speed sampling allows more precise heater control     Up to eight set points can be saved and selected using event inputs     Parameters can be configured using CX-Thermo	DIN rail mounting     50 ms High Speed sampling allows more precise heater control     Built in "AND/OR" logic allows user to configure to their application     Parameters can be configured using CX-Thermo	50 ms High Speed sampling allows more precise heater control     Built in "AND/OR" logic allows user to configure to their application     Parameters can be configured using CX-Thermo	8 segments which can hold 32 segments (256 programs)     "Segment Jump" allows users to jump to specified segment     50ms High Speed sampling allows more precise heater control     Built in "AND/OR" logic allows user to configure to their application     Parameters can be configured using CX-Thermo
Typical Applications	Extrusion Equipment, Blow Molding Equipment, Hot Runner Plastic Injection, Industrial Ovens/Furnaces, Textile mfg. Equipment, Food & Beverage Processing Equipment, Packaging Equipment, Boilers				
Supply Voltage	100-240 VAC, 24VAC/VDC				
Input Types	Thermocouple: K, J, T, E, L, U, N, R, S, B, W, or PL II; RTD: JPt100, Pt100; Current: 4 to 20mA or 0 to 20mA; Voltage: 1 to 5V, 0 to 5V, or 0 to 10V				
Output Types	Relay: SPST-NO (2A@ 250VAC); Voltage: 12VDC @ 20mA; Current:4 to 20 mA or 0 to 20mA	Relay: (SPST-NO, 3A @ 250 VAC); Voltage: 12VDC @ 21mA; Current: 4 to 20mA or 0 to 20mA; Linear Voltage Output: 0 to 10 VDC (Transfer Output Only)			
Control	On/Off, 2-PID (with auto-tuning)				
Event Input	1 or 2 (depends on model)	0	0 or 2 (depends on model)	E5AC & E5EC: 2,4,6 (depends on model) E5CC: 2 or 4 (depends on model)	E5AC-T & E5EC-T: 2,4,6 (depends on model * E5CC-T: 2 or 4 (depends on model)
Sampling Rate	50 ms	50 ms	50 ms	50 ms	50 ms
Display (mm)	PV: 10.5 SV: 5.0	PV: 15.2 SV: 7.1	PV: 8.5 SV: 8.0	E5AC: E5CC: PV: 15.2 SV: 7.1 E5EC: PV: 18.0 SV: 11.0	E5AC-T: PV: 18.0 SV: 11.0 MV: 7.8 E5EC-T: PV: 25.0 SV: 15.0 MV: 9.5 E5CC-T: PV: 15.2 SV: 7.1
Set-up Software (CX-Thermo)	Yes	Yes	Yes	Yes	Yes
Heater Burnout	Yes	Yes	Yes	Yes	Yes
Communications Available	RS-485, Protocol: CompoWay/F, Modbus RTU	No	RS-485, Protocol: CompoWay/F, Modbus RTU	RS-485, Protocol: CompoWay/F, Modbus RTU	RS-485, Protocol: CompoWay/F, Modbus RTU
Program Capacity (Ramp/Soak)	2 Simple Patterns	2 Simple Patterns	2 Simple Patterns	2 Simple Patterns	256 Segments (8 programs, 32 segments)
IP Rating (Front Cover)	NEMA4/IP66	NEMA 4X/IP66	NEMA1/IP20	NEMA 4X/IP66	NEMA 4X/IP66
Approvals	cULus, CE				



Omron's E5\_C Series of Temperature Controllers (E5\_C, E5DC, E5\_C-T and E5CC-U) are capable of providing solutions to multiple applications.

E5\_C Series Temperature Controllers can be used in "On Panel" or "In Panel" applications.

Common features which are shared with these series are:

- Easy to read bright LCD display
- 50 ms sampling speed
- 60 mm (depth) short body design
- Parameters can be set using CX-Thermo software
- Acceptance of multiple inputs (Thermocouple, RTD, Linear)
- Three outputs: Relay, Voltage, Linear Current

## On Panel

E5\_C Series Temperature Controller and E5\_C-T Ramp/Soak Temperature Controller Applications



Sterilization Equipment for Food and Pharmaceuticals



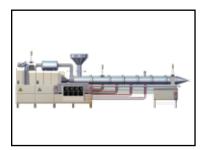
**Electric Furnace** 



Laboratory Instruments and Desktop Testing Apparatus

## In Panel

E5CC-U 1/16 DIN Plug-in & E5DC 22.5 mm (width) Plug-in Applications



**Plastic Injection molding** 



**Electrical Panels** 



**Shrink Wrapping**