



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for OMRON E5CS-X. You'll find the answers to all your questions on the OMRON E5CS-X in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual OMRON E5CS-X  
User guide OMRON E5CS-X  
Operating instructions OMRON E5CS-X  
Instructions for use OMRON E5CS-X  
Instruction manual OMRON E5CS-X

**OMRON**

**Temperature Controller**

**E5CS-X**

DIN-sized (48 x 48 mm) Temperature Controller Features Automatic P (proportional action) Tuning Function

- Accurate to  $\pm 0.5\%$  of full scale.
- Multiple temperature ranges allow easy selection for application.
- Field-selectable temperature ranges in  $^{\circ}\text{C}$  and  $^{\circ}\text{F}$ .
- Easy-to-read, 11-mm high LED digital display.
- Tamper-proof setting, faulty-sensor detection, and controller diagnostics.
- 8-function alarm available.
- Nonvolatile memory.
- Field-selectable control mode (ON/OFF or PID).



### Ordering Information

Thermocouple Type

Input	K (CA) Chromel-alumel				J (C) Iron-constantan					
	0	1	2	3	4	5	6	7	8	9
Standard temperature ranges (switch selectable)	0	100	200	300	400	500	600	700	800	900
Set no.	0	1	2	3	4	5	6	7	8	9
Temperature unit (selectable)	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}/^{\circ}\text{F}$	$^{\circ}\text{C}/^{\circ}\text{F}$	$^{\circ}\text{C}/^{\circ}\text{F}$	$^{\circ}\text{C}/^{\circ}\text{F}$	$^{\circ}\text{F}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}/^{\circ}\text{F}$
Measurement unit	1									
Control mode	ON/OFF or PID									
Without alarm	Relay output	E5CS-RRJX								
	Voltage output	E5CS-QKJX								
With alarm	Relay output	E5CS-RTJX								
	Voltage output	E5CS-QHJX								



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Thermistor Type Input In ut 500 400 300 200 100 0 100 Set no. Temperature unit (selectable) Measurement unit Control mode Without a a ou alarm With a a  
alarm Relay output Voltage output Relay output Voltage output ON/OFF or PID E5CS-RGX E5CS-QGX E5CS-R1GX E5CS-Q1GX THE element  
interchangeable thermistor 600 .....

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Ordering Information 2/20 seconds 500 ms (Output change period: 2 seconds; Indication change period: 2 seconds) 20 M min. (at 500 VDC) 2,000 VAC, 50/60 Hz for 1 minute (between current-carrying terminals of different polarity) Malfunction: 2 to 55 Hz, 2 G for 10 minutes each in X, Y, and Z directions Destruction: 10 to 55 Hz, 0.75 mm double amplitude for 2 hours each in X, Y, and Z directions Malfunction: 100 m/s<sup>2</sup>, in 6 directions, 3 times each Destruction: 300 m/s<sup>2</sup>, in 6 directions, 3 times each Operating: 10 to 55°C Storage: 25 to 65°C 35% to 85% RH IEC 144 Front panel: IP50 Rear panel: IP30 Terminals: IP00 Mechanical: 10,000,000 operations min. (relay output) Electrical: 100,000 operations min. (relay output) Approx. 170 g (main enclosure only) Life expectancy Weight Note: Set values must be within the allowable range limits for alarm values, control outputs, etc. If a set value does not satisfy the following condition, select another range: Minimum of temperature range  $\times T_{set} \pm X \times$  Maximum of temperature range where:  $T_{set}$ =Set temperature, and  $X$ =Alarm value. 4 E5CS-X E5CS-X Nomenclature LED Deviation Indicators  $n$  lights when the present temperature is higher than the set temperature, and  $o$  lights when it is lower. The  $j$  indicator lights in green if the deviation is within  $\pm 1\%$  of the full scale. Main Display Sequentially displays the present temperature, set temperature, and an alarm value (in that order) each time the temperature indication switching ( ) key is pressed. Control Output Indicator Lights while the control output is being produced.

Mode Indicator SP lights while the set temperature is displayed on the main display, and AL lights while an alarm value is being displayed. Protection Key When program protection is selected using the internal DIP switch, the upward and downward setting keys are locked. However, authorized personnel may change values using the upward and downward setting keys by holding down hidden protection key. Alarm Output Operation Indicator Lights when the alarm output relay is energized. Upward Setting Key When pressed, increases the set temperature/alarm value. Successively increases the value when held down. Temperature Indication Switching Key Each time pressed, changes the value displayed on the main display in the following sequence. Downward Setting Key When pressed, decreases the set temperature/alarm value. Successively decreases the value when held down. 5 E5CS-X E5CS-X Operation Temperature Setting Press the temperature indication switching key until the SP indicator lights. Then set the desired temperature value using the upward and downward setting keys.



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