

OMRON

E5CC/E5EC TEMPERATURE CONTROLLER

High performance with simplicity

SimpleType



» Unique performance in temperature control

» High-contrast display

» Easy set-up and operation

**New Models with
Communications and
Other Features**

The New E5CC and E5EC Next-generation Digital Controllers with Advanced Designs and Easy Operation

**White PV display and
new LCD with greatly
improved visibility.***

*100 times higher contrast ratio than the E5□Z.



A compact body with large display characters for easy reading even from a distance.
This helps to reduce human error.



The white LCD display is easy to read in the subdued lighting conditions.



The display remains easy to read even from wide viewing angles.

Following functions are now included!

- Communication (RS-485)
- Event input (E5CC 2 inputs, E5EC 4 inputs max)
- Heater burnout alarm

These new models greatly expand the range of application.

SimpleType



Save space!

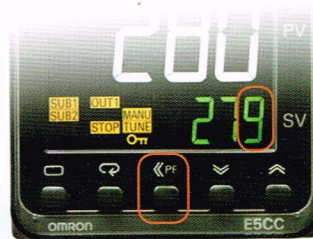
The compact and space-saving design of the new E5CC/E5EC controller generation requires less space behind the panel (60 mm), allowing quick snap-mounting and easy installation even under very cramped conditions.

Save Time!

The E5CC/E5EC series is extremely easy to operate using the instrument's five front keys.

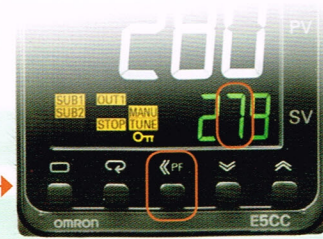


Five front keys



Units digit setting

Push the shift key



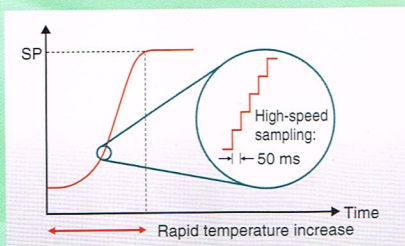
Tens digit setting

Smart!

With key features like simplicity in operation, Omron's patented PID control, and 50ms sampling period, the E5CC/E5EC sets a new standard in fast and precise temperature regulation.

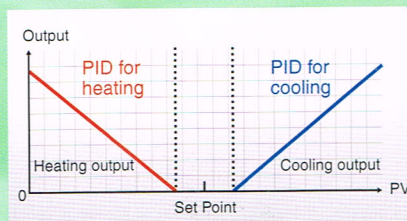
Sampling period: 50ms

Sampling Rate Sufficient to Handle Rapid Increases in Temperature



Independent heating/cooling PID

The heating and cooling PID can each be set individually. Also, autotuning (AT) will automatically set the PID constants.



Setting change protection

You can disable key operations to help prevent incorrect setting change.



A key icon is displayed when setting change protection is enabled.

The E5CC and E5EC cover a wide range of applications.

Packaging machine (E5CC)



High-speed PID control: Sampling period of 50 ms
Upper/lower limit alarms: Two auxiliary outputs

Molding machine (E5EC)



Heating/cooling control: Independent PID control
Upper/lower limit alarms: Two auxiliary outputs

As Good as the E5□Z Series,
And Even Better

Main Features

- Universal input: Thermocouple, Pt, or analog current/voltage
- Indication accuracy: $\pm 0.2\%$ (for PT input)
- PF key assignment can be changed (RUN/STOP, AT execution/STOP)

Ordering Information

Simple Type E5□C-□□□□□□-800

E5CC 48x48mm

Control output 1	Auxiliary output	Communications	Heater burnout	Event inputs	Power supply voltage	Model
Relay output	Two	—	—	—	100 to 240 VAC	E5CC-RX2ASM-800
Voltage output					E5CC-QX2ASM-800	
Current output					E5CC-CX2ASM-800	
Relay output					24 VAC/VDC	E5CC-RX2DSM-800
Voltage output					E5CC-QX2DSM-800	
Current output					E5CC-CX2DSM-800	
Relay output		—	One	Two	100 to 240 VAC	E5CC-RX2ASM-801
Voltage output					E5CC-QX2ASM-801	
Relay output					24 VAC/VDC	E5CC-RX2DSM-801
Voltage output					E5CC-QX2DSM-801	
Relay output					100 to 240 VAC	E5CC-RX2ASM-802
Voltage output					E5CC-QX2ASM-802	
Relay output		RS-485	—	—	24 VAC/VDC	E5CC-RX2DSM-802
Voltage output					E5CC-QX2DSM-802	
Current output					100 to 240 VAC	E5CC-CX2ASM-804
Relay output					24 VAC/VDC	E5CC-CX2DSM-804
Voltage output						
Current output						

E5EC 48x96mm

Control output 1	Control output 2	Auxiliary output	Communications	Heater burnout	Event inputs	Power supply voltage	Model	
Relay output	—	Two	—	—	—	100 to 240 VAC	E5EC-RX2ASM-800	
Voltage output	—						E5EC-QX2ASM-800	
Current output	—						E5EC-CX2ASM-800	
Relay output	Relay output						E5EC-RR2ASM-800	
Voltage output	Relay output						E5EC-QR2ASM-800	
Current output	Relay output						E5EC-CR2ASM-800	
Relay output	—					24 VAC/VDC	E5EC-RX2DSM-800	
Voltage output	—						E5EC-QX2DSM-800	
Current output	—						E5EC-CX2DSM-800	
Relay output	Relay output						E5EC-RR2DSM-800	
Voltage output	Relay output						E5EC-QR2DSM-800	
Current output	Relay output						E5EC-CR2DSM-800	
Relay output	Relay output		RS-485	One	Two	100 to 240 VAC	E5EC-RR2ASM-808	
Voltage output	Relay output					24 VAC/VDC	E5EC-RR2DSM-808	
Relay output	Relay output						E5EC-QR2DSM-808	
Voltage output	Relay output					—	Four	100 to 240 VAC
Relay output	Relay output		24 VAC/VDC		E5EC-RR2DSM-810			
Voltage output	Relay output				E5EC-QR2DSM-810			
Current output	Relay output		RS-485		—			Two
Current output	Relay output					24 VAC/VDC	E5EC-CR2DSM-804	

Line-Up Standard Type E5□C-□□□□□□-0□□

Standard Digital Controllers for Customers Wanting to Improve Productivity

Add Options for More Applications

RS-485 communications, event inputs, heater burnout alarms, remote SP, transfer output, and more.



Support Software for Increased Efficiency

The CX-Thermo enables simple setup by parameter comparison and table format settings.

Refer to the E5CC/E5EC Standard Type Datasheet (Cat. No. H177) for details.