

E5CSL / E5CWL / E5EWL

The general purpose controller
with the best price/performance ratio

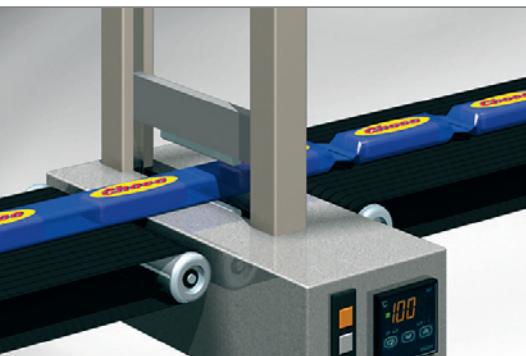


» Simplicity in operation - set-up your configuration within 30s

» Readability up to 5m

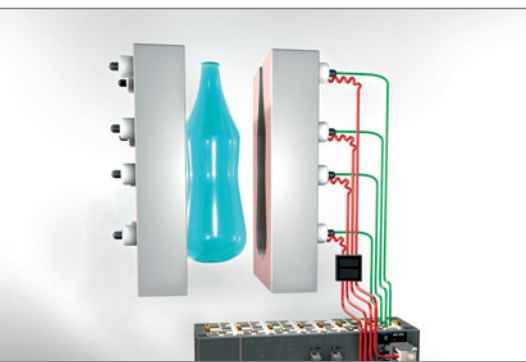
» Slim-case housing with only 60mm in depth

Typical applications



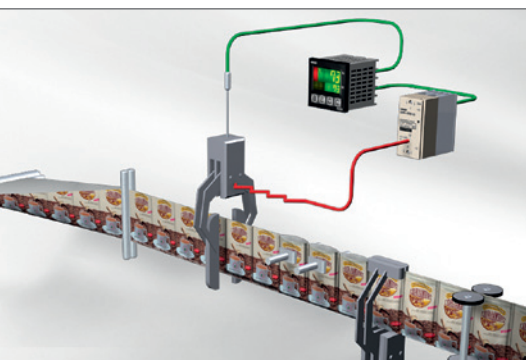
Packaging machine

In packaging applications speed of recovery is very important. Each time the jaws close heat is drawn away into the product. The ability of the E5_L to instantly react on any drop of temperature means that the quality of the seal or welded joint is maintained while operating at high or low speeds.



Moulding machine

Similar to packaging applications moulding die machines require accurate temperatures for best results in final quality. After opening of moulding die tool and ejection of plastic part the temperature is decreasing considerably and E5_L is helping to get back to stable conditions very quickly.



Sealing machine

In sealing machines a fast control performance is required to manage the short cycle times. With 250ms of sampling period E5_L is able to regulate such applications quickly and reliably without overshoot achieving best results in welded seams.

Model Number Structure/Legend

E5CSL - □ □
1 2

1 Control Output

R: Relay output: 250 VAC, 3 A
Q: Voltage output (for driving SSR):
12 VDC, 21 mA

2 Sensor type

TC: Thermocouple (K, J, T, R, or S)
P: Platinum resistance
thermometer (Pt100)

E5CWL - □ 1 □
1 2 3

1 Control Output

R: Relay output: 250 VAC, 3 A
Q: Voltage output (for driving SSR):
12 VDC, 21 mA

2 Alarm

1: Relay output: 250 VAC, 1 A
(resistive load)

3 Sensor type

TC: Thermocouple (K, J, T, R, or S)
P: Platinum resistance
thermometer (Pt100)

E5EWL - □ 1 □
1 2 3

1 Control Output

R: Relay output: 250 VAC, 3 A
Q: Voltage output (for driving SSR):
12 VDC, 21 mA

2 Alarm

1: Relay output: 250 VAC, 1 A
(resistive load)

3 Sensor type

TC: Thermocouple (K, J, T, R, or S)
P: Platinum resistance
thermometer (Pt100)

Specifications

Ratings		
Power supply voltage		100 to 240 VAC, 50/60 Hz
Operating voltage range		85% to 110% of rated supply voltage
Power consumption		3.5 VA
Sensor input		Models with thermocouple inputs Thermocouple: K, J, T, R, or S
		Models with platinum resistance thermometer inputs Platinum resistance thermometer: Pt100
Control output	Relay output	SPST-NO, 250 VAC, 3 A (resistive load), electrical life: 100,000 operations, minimum load: 5 V, 10 mA
	Voltage output (for driving SSR)	Output voltage: 12 VDC -25%/-15% (PNP), max. load current: 21 mA, with short-circuit protection circuit
Alarm output (See note.)		SPST-NO, 250 VAC, 1 A (resistive load), electrical life: 100,000 operations, minimum load: 5 V, 10 mA
Control method		ON/OFF control or 2-PID control (with auto-tuning)
Setting method		Digital setting using front panel keys
Indication method		7-segment digital display and individual indicators Character height: E5CSL: 21.7 mm, E5CWL: 16.2 mm (PV), E5EWL: 20 mm (PV)
Other functions		Temperature input shift, run/stop, protection functions, etc.
Ambient operating temperature		-10 to 55°C (with no icing or condensation)
Ambient operating humidity		25% to 85%
Storage temperature		-25 to 65°C (with no icing or condensation)

Note: E5CWL/E5EWL only

Dimensions	E5CSL/E5CWL	E5EWL
(W x H x D)	(48 x 48 x 64) mm	(48 x 96 x 64) mm

E5CC/E5EC temperature controller series

Launch of new generation On-Panel Temperature Controller

Temperature control has taken a giant leap forward with our next generation of controllers - the E5CC/E5EC, which set new global standard in the crucial areas of precision, user friendliness and control performance. With their large easy-to-read displays, fast simple set up and 50 ms sampling time, next generation temperature controllers in omron's innovative E5CC/E5EC range set new standards in the key areas of accuracy, user friendliness and control performance.

 industrial.omron.eu/e5cc-e5ec

NEW GENERATION



Specifications

LIST OF MODELS

E5CSL

Size	Power supply voltage	Input type	Alarm output	Control output	Model
1/16 DIN 48 x 48 x 60 (W x H x D)	100 to 240 VAC	Thermocouple	None	Relay output	E5CSL-RTC
		Resistance thermometer			E5CSL-RP
		Thermocouple		Voltage output (for driving SSR)	E5CSL-QTC
		Resistance thermometer			E5CSL-QP

E5CWL

Size	Power supply voltage	Input type	Alarm output	Control output	Model
1/16 DIN 48 x 48 x 60 (W x H x D)	100 to 240 VAC	Thermocouple	1	Relay output	E5CWL-RITC
		Resistance thermometer			E5CWL-RIP
		Thermocouple		Voltage output (for driving SSR)	E5CWL-QITC
		Resistance thermometer			E5CWL-Q1P

E5EWL

Size	Power supply voltage	Input type	Alarm output	Control output	Model
1/8 DIN 48 x 96 x 60 (W x H x D)	100 to 240 VAC	Thermocouple	1	Relay output	E5EWL-RITC
		Resistance thermometer			E5EWL-RIP
		Thermocouple		Voltage output (for driving SSR)	E5EWL-QITC
		Resistance thermometer			E5EWL-Q1P

ACCESSORIES (ORDER SEPARATELY)

Terminal Cover

Models	E53-COV19
Front Panel (for E5CSL/E5CWL)	
Models	E53-COV19
Note: 1. This Front Panel accessory is required to attach the Y92A-48B or Y92A-48D. 2. This Front Panel accessory is only the frame. It does not include the plastic cover.	

Adapter

Model	Remarks
Y92F-45	- Use this Adapter when the Front Panel has already been prepared for the E5B. - Only black is available. - Order separately.
Y92F-49	- Use for E5CSL/E5CWL only. - Provided with E5CSL/E5CWL.
Y92F-51	- Use for E5EWL only. - Provided with E5EWL.

Contact us for more information.

OMRON EUROPE B.V. Wegalaan 67-69, NL-2132 JD, Hoofddorp, The Netherlands. Tel: +31 (0) 23 568 13 00 Fax: +31 (0) 23 568 13 88 www.industrial.omron.eu

Austria
Tel: +43 (0) 2236 377 800
www.industrial.omron.at

Belgium
Tel: +32 (0) 2 466 24 80
www.industrial.omron.be

Czech Republic
Tel: +420 234 602 602
www.industrial.omron.cz

Denmark
Tel: +45 43 44 00 11
www.industrial.omron.dk

Finland
Tel: +358 (0) 207 464 200
www.industrial.omron.fi

France
Tel: +33 (0) 1 56 63 70 00
www.industrial.omron.fr

Germany
Tel: +49 (0) 2173 680 00
www.industrial.omron.de

Hungary
Tel: +36 1 399 30 50
www.industrial.omron.hu

Italy
Tel: +39 02 326 81
www.industrial.omron.it

Netherlands
Tel: +31 (0) 23 568 11 00
www.industrial.omron.nl

Norway
Tel: +47 (0) 22 65 75 00
www.industrial.omron.no

Poland
Tel: +48 (0) 22 645 78 60
www.industrial.omron.pl

Portugal
Tel: +351 21 942 94 00
www.industrial.omron.pt

Russia
Tel: +7 495 648 94 50
www.industrial.omron.ru

South Africa
Tel: +27 (0)11 579 2600
www.industrial.omron.co.za

Spain
Tel: +34 913 777 900
www.industrial.omron.es

Sweden
Tel: +46 (0) 8 632 35 00
www.industrial.omron.se

Switzerland
Tel: +41 (0) 41 748 13 13
www.industrial.omron.ch

Turkey
Tel: +90 212 467 30 00
www.industrial.omron.com.tr

United Kingdom
Tel: +44 (0) 870 752 08 61
www.industrial.omron.co.uk