



Product Discontinuation Notices

May 7, 2009

Temperature Controllers

No. 2009156E

Discontinuation Notice of Temperature Controller E5L-AS[]/AX[]/B[]/BS[]/BX[]

Product Discontinuation Temperature Controllers

Recommended Replacement

Temperature Controllers

X

E5L-AS[]/AX[] B[]/BS[]/BX[]

E5L-C [] (This series will be released after April 2009.) E5CS-RGU-W

Discontinuation date : The end of March, 2010

Model	Body Color	Dimen sions	Wire connection	Mounting Dimensions	Charact eristics	Operation ratings	Operation methods
E5L-C []	**	**	**	**		*	
Recommended replacement 1	See note 1.	See note 1.	See note 1.	See note 1.		See note 1.	
E5CS-RGU-W							
Recommended							
replacement 2							

** : Fully compatible

* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

Note 1: Body color, dimensions and mounting dimensions are fully compatible. But there are no replacement of indicators, panel meters and external setters.

Product discontinuation	Recommended replacement 1 E5L-C []	Recommended replacement 2 E5CS-RGU-W
Common Precaution	 Digital display for temperature display and set temperature on front panel. Panel mounting is not possible for E5L-C [] Temperature can be set by not setter (dial) but digital setting by key operation on front panel. The rating for relay output is changed from SPDT to SPST-NO. Switching between direct operation (cooling control) and reverse operation (heating control) is made by key operation on front panel. 	 Digital display for temperature display and set temperature on front panel. Panel mounting is possible for E5CS-RGU-W, however, panel cutout is different from the product to be discontinued. Temperature can be set by not setter (dial) but digital setting by key operation on front panel. The rating for relay output is changed from 10A to 3A. Switching between direct operation (cooling control) and reverse operation (heating control) is made by internal switch for changing control mode. Thermistor is not attached. Order separately.
E5L-AS[]	 No indicator for panel mounting 	- No indicator for panel mounting
E5L-AX[]	 No panel meter for panel mounting 	 No panel meter for panel mounting
E5L-B[]	- No external setter for panel mounting	 No external setter for panel mounting
E5L-BS[]	 No external setter for panel mounting No indicator for panel mounting 	 No external setter for panel mounting No indicator for panel mounting
E5L-BX[]	 No external setter for panel mounting No panel meter for panel mounting 	 No external setter for panel mounting No panel meter for panel mounting



Recom	mendable replacement		
Recommended replacement 1	Recommended replacement 2		
E5L-C []	E5CS-RGU-W + E52-THE5A		
orman ESL DECEMBENCE DECEMBENCE			
Mounting to the panel	Mounting to the panel E52-THE5A		
■Yes □No	■Yes □No		

Product discontinuation	Recomn	nended replacement
Model	Recommended	Recommended replacement 2
	replacement 1	-
E5L-AS1 -30 to +20°C (100VAC)	E5L-C -30-20	E5CS-RGU-W
E5L-AS3 -30 to +20°C (200VAC)		+ E52-THE5A -50 to +50°C
E5L-AS1 0 to +50°C (100VAC)	E5L-C 0-100	E5CS-RGU-W
E5L-AS2 0 to +50°C (110VAC)		+ E52-THE5A -50 to +50°C
E5L-AS3 0 to +50°C (200VAC)		or
E5L-AS4 0 to +50°C (220VAC)	_	+ E52-THE5A 0 to +100°C
E5L-AS1 0 to +100°C (100VAC)	_	E5CS-RGU-W
E5L-AS2 0 to +100°C (110VAC)	_	+ E52-THE5A 0 to +100°C
E5L-AS3 0 to +100°C (200VAC)	_	
E5L-AS4 0 to +100°C (220VAC)		
E5L-AS1 +100 to +200°C (100VAC)	_ E5L-C 100-200	E5CS-RGU-W
E5L-AS2 +100 to +200°C (110VAC)	_	+ E52-THE5A +100 to +200°C
E5L-AS3 +100 to +200°C (200VAC)	_	
E5L-AS4 +100 to +200°C (220VAC)		
E5L-AX1 0 to +50°C (100VAC)	E5L-C 0-100	E5CS-RGU-W
E5L-AX2 0 to +50°C (110VAC)	4	+ E52-THE5A -50 to +50°C
E5L-AX3 0 to +50°C (200VAC)	_	or
E5L-AX4 0 to +50°C (220VAC)	4	+ E52-THE5A 0 to +100°C
E5L-AX6 0 to +50°C (240VAC)	4	
E5L-AX1 0 to +100°C (100VAC)	4	E5CS-RGU-W
E5L-AX2 0 to +100°C (110VAC)	4	+ E52-THE5A 0 to +100°C
E5L-AX3 0 to +100°C (200VAC)	4	
E5L-AX4 0 to +100°C (220VAC)	4	
E5L-AX6 0 to +100°C (240VAC)		
E5L-AX6 +100 to +200°C (240VAC)	E5L-C 100-200	E5CS-RGU-W
		+ E52-THE5A +100 to +200°C
E5L-B1 0 to +50°C (100VAC)	E5L-C 0-100	E5CS-RGU-W
E5L-B2 0 to +50°C (110VAC)	4	+ E52-THE5A -50 to +50°C
E5L-B3 0 to +50°C (200VAC)	4	
E5L-B4 0 to +50°C (220VAC)	4	+ E52-THE5A 0 to +100°C
E5L-B1 0 to +100°C (100VAC)		E5CS-RGU-W
E5L-B2 0 to +100°C (110VAC)	4	+ E52-THE5A 0 to +100°C
E5L-B3 0 to +100°C (200VAC)		
E5L-B4 0 to +100°C (220VAC)		
E5L-B6 0 to +100°C (240VAC)		

Product Discontinuation	Recom	mended replacement
Model	Recommended replacement 1	Recommended replacement 2
E5L-B1 +100 to +200°C (100VAC)	E5L-C 100-200	E5CS-RGU-W
E5L-B2 +100 to +200°C (110VAC)		+ E52-THE5A +100 to +200°C
E5L-B3 +100 to +200°C (200VAC)		
E5L-B4 +100 to +200°C (220VAC)		
E5L-B6 +100 to +200°C (240VAC)		
E5L-BS1 0 to +50°C (100VAC)	E5L-C 0-100	E5CS-RGU-W
		+ E52-THE5A -50 to +50°C
		or
		+ E52-THE5A 0 to +100°C
E5L-BS1 0 to +100°C (100VAC)		E5CS-RGU-W
		+ E52-THE5A 0 to +100°C
E5L-BS1 +100 to +200°C (100VAC)	E5L-C 100-200	E5CS-RGU-W
		+ E52-THE5A +100 to +200°C
E5L-BX1 -30 to +20°C(100VAC)	E5L-C -30-20	E5CS-RGU-W
E5L-BX6 -30 to +20°C(240VAC)		+ E52-THE5A -50 to +50°C
E5L-BX1 0 to +50°C (100VAC)	E5L-C 0-100	E5CS-RGU-W
E5L-BX2 0 to +50°C (110VAC)		+ E52-THE5A -50 to +50°C
E5L-BX3 0 to +50°C (200VAC)		or
E5L-BX4 0 to +50°C (220VAC)		+ E52-THE5A 0 to +100°C
E5L-BX6 0 to +50°C (240VAC)		
E5L-BX1 0 to +100°C (100VAC)		E5CS-RGU-W
E5L-BX2 0 to +100°C (110VAC)		+ E52-THE5A 0 to +100°C
E5L-BX3 0 to +100°C (200VAC)		
E5L-BX4 0 to +100°C (220VAC)		
E5L-BX6 0 to +100°C (240VAC)		
E5L-BX1 +100 to +200°C (100VAC)	E5L-C 100-200	E5CS-RGU-W
		+ E52-THE5A +100 to +200°C

Dimensions for E5L series



Dimensions for external setter and indicator



Terminal arrangement / Wiring connection



Mounting Dimensions for E5L series



Product discontinuation	Recommendable replacement
	<recommended 2="" e5cs-rgu-w="" replacement=""> Mounting with Front-connecting Socket P2CF-08 or P2CF-08-E (order separately) Mounting Dimensions Two, 4.5 dia. or two, M4 -4 -4 $-40^{\pm0.2}$</recommended>
	Dimensions for P2CF-08
	Dimensions for P2CF-08-E

Mounting Dimensions for indicator and external setter



Characteristics

Items	Product Discontinuation	Recommended	Recommended	
		replacement 1	replacement 2	
	E5L-AS[]/AX[]/B[]/BS[]/BX[]	E5L-C []	E5CS-RGU-W	
Power supply voltage	E5L-[][]1[] : 100VAC E5L-[][]2[] : 110VAC E5L-[][]3[] : 200VAC E5L-[][]4[] : 220VAC E5L-[][]6[] : 240VAC	100 to 240VAC	100 to 240VAC	
Power consumption	Approx. 1.8VA	3VA	5VA	
Input	Element-interchangeable thermistor E52-THE-E5L (Accessory)	Element-interchangeable thermistor E52-THE-E5L (Accessory)	Element-interchangeable thermistor E52-THE5A (Order separately)	
Control output	Contact: SPDT 250VAC 10A cosø =1 (resistive load)	Contact: SPST-NO 250VAC 10A cosø=1 (resistive load)	Contact: SPDT 250VAC 3A cosø=1 (resistive load)	
Setting method	AS[]/AX[] Analog setting by internal setter B[]/BS[]/BX[] Analog setting by external setter	Digital setting by key operation on front panel	Digital setting by key operation on front panel	
Indication method	B[]:No indication AS[]/BS[]: Indicator (external) AX[]/BX[]: panel meter (external)	LCD digital display (Character height:12mm)	7-segment digital display (Character height:13.5mm) and deviation indication	
Indication accuracy	AS[]:±10%FS max. AX[]:±3%FS max. B[]:- BS[]:±10%FS max. BX[]:±3%FS max.	± (1°C +1 digit) max.	(1%FS)±1 digit max. Note: Temperature indication range which exceeds ±10%FS in set temperature range is not covered under warranty in accuracy.	
Setting accuracy	AS[]/AX[]:- B[]/BS[]/BX[]:±2%FS max.	± (1°C+1 digit) max.	(1%FS)±1 digit max. Note: Temperature indication range which exceeds ±10%FS in set temperature range is not covered under warranty in accuracy.	
Hysteresis	Model with -30 to +20°C:can be changed from Approx. 0.5 to 2.5°C Model with 0 to +50°C:can be changed from Approx. 0.5 to 4°C Model with 0 to +100°C:can be changed from Approx. 0.5 to 4°C Model with +100 to +200°C:can be changed from Approx. 0.7 to 4°C	1 to 9°C (in units of 1°C)	0.2%FS	

Items	Product Discontinuation	Recommended	Recommended	
	E5L-AS[]/AX[]/B[]/BS[]/BX[]	replacement 1 E5L-C []	replacement 2 E5CS-RGU-W	
Repeated	1%FS max.	Not specified	Not specified	
accuracy	1701 O Max.	Not specified	Not specified	
Minimum	AS[]/AX[]	1°C	1°C	
scale value	-30 to +20°C,0 to +50°C:5°C			
(Standard	0 to +100°C,+100 to			
scale value)	+200°C:10°C			
	B[]/BS[]/BX[] -30 to +20°C,0 to +50°C:1°C			
	0 to +100°C,+100 to			
	+200°C:2°C			
Insulation	100MΩ min. (at 500 VDC)	100MΩ min.	20MΩ min.	
resistance		(at 500 VDC)	(at 500 VDC)	
Dielectric	1500VAC 50 or 60Hz for 1	2300VAC 50 or 60Hz for 1	2000VAC 50 or 60Hz for 1	
strength	min	min	min	
5	(between terminal with	(between terminal with	(between terminals with	
	conductive part and metal	conductive part and metal	different charge)	
	part without charge)	part without charge)		
	(between power terminal and	(between power terminal		
	input terminal)	and input terminal)		
	(between power terminal and	(between power terminal		
	output terminal)	and output terminal)		
	(between input terminal and	(between input terminal		
Manaan	output terminal)	and output terminal)		
Memory	Not specified	Non-volatile memory (number of write	Non-volatile memory	
protection		(number of write operations: 100,000 times)	(number of write operations: 1,000,000 times)	
Weight	Thermostat: Approx. 130 g	Approx. 80g (Thermostat	Approx. 110g	
Weight	Indicator part :Approx. 20g	only)	(Thermostat only)	
	Panel meter part : Approx. 50g		(monifoldationay)	
	External setter :Approx. 75g			
Conformed	Not conformed	EMC directive	EMC directive	
standards		(EMI/EMS):EN61326	(EMI/EMS):EN61326	
		Low-voltage directive:	Low-voltage directive:	
		EN61010-1 (IEC61010-1)	EN61010-1 (IEC61010-1)	
		Pollution level 2, over	Pollution level 2, over	
		current category II	current category II	
Approved	Not approved	Not approved	UL61010C-1 (UL Listed)	
standards			CSA C22.2 No.1010-1	

Operation methods

Items			Product discontinuation	Recommendable replacement
Temperature	display	and	Analog	Digital
temperature setting			(Indicator and setter (dial))	