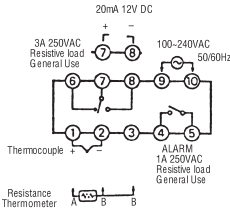
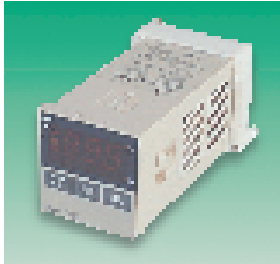


Temperature/Process Controllers — continued

Multirange Digital, On/Off or PID Control – E5CS OMRON



H = 48, W = 48, D = 106
Panel cut-out = 45 45

- Electronic digital temperature controller with On/Off or PID control actions
- Can be profiled by user for a variety of temperature ranges and control actions
- Fitted with an alarm relay which can be profiled in a variety of ways
- Platinum resistance probes or J & K thermocouples
- Temperature can be displayed in °C and °F
- Versions available with either changeover output relay or voltage pulse to drive an external relay (see Section 4.18)
- Suitable for panel mounting & is supplied with panel mounting bracket
- Approved to **UL & CSA, CE** Marked
- Pre-configured with standard settings

Temperature ranges (platinum resistance controllers)
 -50°C to 50°C, 0°C to 50.0°C, -20°C to 80°C, 0°C to 99.9°C, 0°C to 200°C, 0°C to 300°C, 0°C to 400°C, 0°F to 99.9°F, 0°F to 200°F, 0°F to 400°F, 0°F to 600°F, 0°F to 800°F

Temperature ranges (types J & K thermocouple controllers)
 Type J: 0°C to 200°C, 0°C to 300°C, 0°C to 400°C, 0°C to 500°C, 0°F to 400°F, 0°F to 500°F
 Type K: 0°C to 200°C, 0°C to 300°C, 0°C to 400°C, 0°C to 500°C, 0°C to 600°C, 0°C to 999°C, 0°F to 400°F, 0°F to 500°F, 0°F to 600°F, 0°F to 999°F

Control action: ON/OFF or PID
 Control mode: Heating or cooling
 Cycle time (PID mode): 2 or 20s
 Alarm mode: 9 different modes of high and low alarm also absolute value alarm

Supply voltage: 100 to 240V -15%+10% 50/60Hz
 Power consumption: 8VA
 Control output (relay type): 3A 250V ac (resistive)
 Control output (voltage type): 12V dc 20mA
 Alarm output: 1A 250V ac (resistive)
 Deviation indication LED: Middle LED illuminated when process temperature within ±1% of full scale
 Alarm output setting range: Same as selected range
 Absolute value alarm setting: 0 to full scale
 Input shift setting range (changes display calibration to allow for sensor error or system offset): ±1 to 99 degrees (±0.1 to 9;9 with range 0 to 99.9 selected)
 Setting/indication accuracy: ±0.5% of selected range ±1 digit
 Proportional period (cycle time): 2 or 20s selectable
 Proportional band: Automatically adjusted in PID mode
 Integral time: 4m (fixed)
 Derivative time: 0.4m (fixed)
 Hysteresis in ON/OFF mode: 0.2% of selected range
 Ambient operating temperature: -10°C to 55°C

Mfrs. List No. E5CS-R1PX-521 = 177-063, E5CS-Q1PX-523 = 177-064, E5CS-R1KJX = 177-065, E5CS-Q1KJX = 177-066 PLC7X

		Price Each			
Output	Order Code	1+	5+	10+	25+
Platinum Resistor Controllers					
Relay	177-063				
Voltage	177-064				
Type J & K Thermocouple Controllers					
Relay	177-065				
Voltage	177-066				

Multirange Digital, On/Off or PID Control – E5CJ Fuzzy Self Tuning OMRON



48mm 48mm H = 48, W = 48, D = 100 (behind panel) Cut-out H = 44.8, W = 44.8
 96mm 96mm H = 96, W = 96, D = 98 (behind panel) Cut-out H = 91, W = 91
 48mm 96mm H = 96, W = 48, D = 98 (behind panel) Cut-out H = 91, W = 44

- DIN standard sized enclosures
- Fuzzy self tuning continuously optimises temperature control
- Minimal user set-up
- Dual set point selectable by external input
- Control of run/stop mode from an external input (optional on 48mm² versions)
- Panel front protection to **IP54, (IP66 NEMA 4** with optional cover).
- Common output modules (must be ordered separately) for 96 96mm and 48 96mm versions

Supply voltage Input: 100 to 240V ac, 50/60Hz (-15% +10%)
 Thermocouple K, J, T, L, U, N types or JPt100/Pt100, selectable
 Alarm outputs: 48mm² versions: 2 SPST NO contacts 1A, 250V ac
 Other versions: 2 independent SPST NO contacts 3A, 250V ac
 Event input: Contact 'ON' 1KΩ max, 'OFF' 100KΩ min
 Open collector 'ON' 3V max residual voltage, 'OFF' leakage current 1mA max
 Display: Process value 4 7 segment LEDs, Red
 Set value 4 7 segment LEDs, Green
 Other functions: Key protection, normal and reverse output, multiple set points

Mfrs. List No. E5CJ-R2 = 474-459, E5CJ-Q2 = 474-460, E5CJ-R2HB = 474-484, E5CJ-Q2HB = 474-496, E5AJ-A2HB = 474-514, E5EJ-A2HB = 474-526. PLC109X

48mm 48mm Controllers	Order Code	Price Each		
		1+	5+	10+
Without Event Input				
Relay output	474-459			
Voltage output	474-460			
With Event Input				
Relay output	474-484			
Voltage output	474-496			
96mm 96mm Controller	474-514			
48mm 96mm Controller	474-526			
Output Modules for 96mm 96mm & 48mm 96mm Controllers				
Relay	178-478			
Voltage	178-479			

Multirange - On/Off or PID Control 'E5CK' OMRON



H = 53, W = 53, D = 113
Panel Cut-out = 45 45

Supply voltage Inputs: 100-240V ac, 50/60Hz (15VA)
 Thermocouple: K, J, T, E, L, U, N, R, S, B, W, PLII
 Platinum resistance thermometer: JPt100, Pt100
 Current input: 4-20mA, 0-20mA
 Voltage input: 1-5V, 0-5V, 1-10V
 Outputs: Relay: 3A @ 250V ac (resistive), SPST
 Voltage: NPN 20mA @ 12Vdc (with short circuit protection)
 Linear current output: 4-20mA
 Linear voltage output: 0-10V dc
 Operating temperature: -10°C to 50°C PLC164

Base Unit	Mfrs. List No.	Order Code	Price Each			
			1+	5+	10+	25+
Standard	E5CK-AA1-500	988-637				
Output Units						
Relay/Relay	E53-R4R4	988-649				
Pulse (NPN) Relay	E53-Q4R4	988-650				
Linear (4-20mA)/Relay	E53-C4R4	988-662				
Linear (0-10V)/Relay	E53-V44R4	988-686				

Digital Temperature Controllers E5CN/E5EN/E5GN Series OMRON



Asian Selection
New