

Temperature Controllers



Model TEC-4400 1/4 DIN

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Design Features

- * 1/4 DIN size – 96 mm × 96 mm
- * Fuzzy Logic PID Autotune heat and cool control
- * Universal input, field configurable (Type J T/C default, PT100, mA, V) with high accuracy 18-bit D-A
- * Countdown display
- * RS - 485 and Analog Retransmission Available
- * Micro USB Programming Port
- * Fast sampling rate (200 msec)
- * Manual control & auto-tune function
- * Wide range of alarm mode selection
- * Lockout protection
- * Bumpless transfer during failure mode
- * Soft-start ramp & dwell timer
- * Bright LCD display using NFPA/IEC standard colors
- * High performance with low cost

Agency Approvals:



RoHS, REACH, WEEE

Hardware Code: TEC-4400 -

A Part Number based on the hardware code and any software pre-programming will be issued at time of order.

Power Input BOX 1

- 4 = 90-250 VAC
- 5 = 11-40 VDC / 20-28 VAC

Output 1 BOX 2

- 1 = Relay: 2A / 240 VAC
- 2 = Pulse DC for SSR drive: 5 VDC (30 mA max)
- 3 = Isolated, 4-20 mA (default), 0-20 mA
- 5 = Isolated VDC, 0-10 scalable
- C = Pulse DC for SSR drive: 14 VDC (40 mA max)

Output 2 / Alarm 1 BOX 3

- 0 = None
- 1 = Relay: 2A / 240 VAC
- 2 = Pulse DC for SSR drive: 5 VDC (30 mA max)
- 3 = Isolated, 4-20 mA (default), 0
- 5 = Isolated, VDC, 0-10 scalable
- C = Pulse DC for SSR drive: 14 VDC (40 mA max)

Alarm 2 and 3 BOX 4

- 0 = None
- 1 = Alarm 2: Relay: 2A / 240 VAC
- 2 = Alarm 2 and 3: Relays: 2A / 240 VAC

Event Inputs BOX 5

- 0 = None
- 1 = 6 Event Inputs

Option 1 BOX 6

- 0 = None
- 1 = RS-485 Interface and Remote Setpoint

Option 2 BOX 7

- 0 = None
- 1 = 1 CT Input and Remote Setpoint
- 2 = 2 CT Inputs and Remote Setpoint

Option 3 BOX 8

- 0 = None
- 1 = Retransmit: 4-20 mA / 0-20 mA and Remote Setpoint
- 2 = Retransmit: 0-10 VDC and Remote Setpoint
- 3 = Alarm 4 Relay: 2A / 240 VAC and Remote Setpoint
- 4 = Alarm 4 Relay: 2A / 240 VAC, Retransmit: 4-20 mA / 0-20 mA and Remote Setpoint
- 5 = Alarm 4 Relay: 2A / 240 VAC, Retransmit: 0-10 VDC and Remote Setpoint

Option 4 BOX 9

- 0 = None
- 1 = Terminal Covers
- 2 = Ramp and Soak Firmware
- 3 = Terminal Covers and Ramp and Soak Firmware



Note: Detailed information on features common to digital microprocessor-based TEC temperature controls and the complete Table of Input Range and Accuracy can be found on page 13-46.

Transformer for Heater Break Alarm

(0-50 Amp current)

Part Number: TEC99998

Specifications on page 13-47

Stock and Common Part Numbers

(All Stock Part Numbers Include Terminal Covers)
(Default Type "J" Thermocouple Input)

Part Number	Output 1	Out 2/ Alm 1	Alarm 2 & 3
TEC44001	Relay	None	None
TEC44002	Relay	Relay	None
TEC44003	Relay	Relay	(2) Relays
TEC44004	Pulse DC	None	None
TEC44005	Pulse DC	Relay	None
TEC44006	Pulse DC	Relay	(2) Relays
TEC44007	4-20mA	None	None
TEC44008	4-20mA	Relay	(2) Relays