Configurable for 4 Programmable Outputs!

Agency Approvals: RoHS

# Model **TEC-2500** 1/32 DIN



## Model TEC-2500 1/32 DIN Temperature Controller

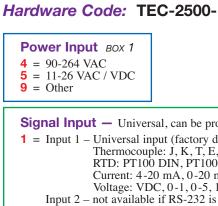
### **Design Features**

- \* 1/32 DIN size 24 mm × 48 mm
- \* Fuzzy Logic PID Autotune heat & cool control
- \* Short panel depth only 3-7/8" (98 mm) required
- \* Universal input, field configurable (Type J T/C default, PT100, mA, V) with high accuracy 18-bit D-A
- \* Heater Break Alarm using 0-50 Amp current transformer
- \* Output 2 can be programmed as output or alarm
- \* NEMA 4X / IP65 gasketed front panel
- \* Alarm 1 programmable 5 VDC logic output
- \* Universal input power, 90-264 VAC or 11-26 VAC/VDC
- \* Bumpless transfer to manual mode during sensor failure

A Part Number based on the hardware code and any software

pre-programming will be issued at time of order.

- \* Power limiter output
- \* Wide variety of alarm mode selections
- \* RS-485 and RS-232 data communications interface
- \* Bright 0.40" (10 mm) LED display
- \* Fast input sample rate (5 samples/second)
- \* Automatic programming
- \* Differential control
- \* "Soft-Start" ramp and dwell timer
- \* Analog input for remote setpoint and current transformer
- \* Event input for changing functions and setpoint
- \* Hardware lockout plus remote lockout protection
- \* Loop break alarm
- \* Analog retransmission
- \* DC power supply outputs
- \* High performance at a low price



File #:

E244198

Signal Input — Universal, can be programmed in the field BOX 2
1 = Input 1 – Universal input (factory default = tc type J) Thermocouple: J, K, T, E, B, R, S, N, L RTD: PT100 DIN, PT100 JIS Current: 4-20 mA, 0-20 mA Voltage: VDC, 0-1, 0-5, 1-5, 0-10 Input 2 – not available if RS-232 is specified CT: 0 - 50A AC current Transformer (factory default) Voltage Input: 0-1V, 0-5V, 1-5V, 0-10V Event Input
9 = Other

#### Output 1 BOX 3

- 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
- 4 =Isolated, VDC, 1-5 (default), 0-5, 0-1
- 5 =Isolated, VDC, 0-10
- 6 = Triac-SSR output 1A / 240 VAC C = Pulse DC for SSR drive: 14 VDC (40 mA max)
- 9 = Other

**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: TEC99999 Specifications on page 13-47

View Product Inventory @ www.tempco.com

7 = Isolated 20V @ 25 mA DC, Output Power Supply
8 = Isolated 12V @ 40 mA DC, Output Power Supply

5 =Isolated VDC, 0-10

Output 2 / Alarm 2 BOX 4

1 = Relay: 2A / 240 VAC

9 = Isolated 5V @ 80 mA DC, Output Power Supply

2 = Pulse DC for SSR drive: 5 VDC (30 mA max)

**3** = Isolated, 4-20 mA (default), 0-20 mA **4** = Isolated VDC, 1-5 (default), 0-5, 0-1

6 = Triac-SSR output 1A / 240 VAC

- C = Pulse DC for SSR drive: 14 VDC (40 mA max)
- $\mathbf{A} = \text{Other}$

 $\mathbf{0} = \text{None}$ 

- Alarm 1 BOX 5
- 1 = 5 VDC Logic Output
- 9 = Other

#### Communications BOX 6

- $\mathbf{0}$  = None
- 1 = RS-485 Interface
- 2 = RS-232 Interface
- **3** = Retransmission 4-20 mA (default), 0-20 mA **4** = Retransmission 1-5 VDC (default), 0-5 VDC
- 5 = Retransmission 0.10 VDC
- 9 = Other

Units – °F or °C BOX 7

- $1 = {}^{\circ}F$  on faceplate
- 2 = °C on faceplate
  3 = None (process units)