Model TEC-4300 1/4 DIN

Out2

TEMPCO



TEC-4300



Programmable Outputs!

Agency Approvals:



Power Input BOX 1
4 = 90-264 VAC 5 = 11-26 VAC / VDC 9 = Other



Model TEC-4300 1/4 DIN Temperature Controller

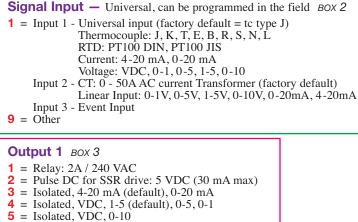
Design Features

- * 1/4 DIN size 96 mm × 96 mm
- * Fuzzy Logic PID Autotune heat and cool control
- * Short panel depth only 2" (53 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 cooling output only
- * 2 optional alarms programmable NO or NC relav
- * Wide variety of alarm mode selections
- * Bumpless transfer to manual mode during sensor failure
- * Universal input power, 90-264 VAC or 11-26 VAC/VDC
- * Power limiter output
- * RS-485 and RS-232 data communications interface

- * Bright 0.55" (14 mm) red LED process display 0.40" (10 mm) and green LED setpoint display stabilized with a digital filter if required
- * Fast input sample rate (5 samples/second)
- * 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
- * Tempco's most highly featured 1/4 DIN control

Hardware Code: TEC-4300-

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



- 6 = Triac-SSR output 1A / 240 VAC
- C = Pulse DC for SSR drive: 14 VDC (40 mA max)
- 9 = Other
- Output 2 BOX 4
- $\mathbf{0} = \text{None}$
- 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
- **7** = Isolated 20V $\hat{@}$ 25 mA DC, Output Power Supply
- 8 = Isolated 12V @ 40 mA DC, Output Power Supply 9 = Isolated 5V @ 80 mA DC, Output Power Supply
- C = Pulse DC for SSR drive: 14 VDC (40 mA max)
- $\mathbf{A} = \text{Other}$

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.

View Product Inventory @ www.tempco.com

Communications BOX 7 $\mathbf{0} = \text{None}$

- **1** = RS-485 Interface
- 2 = RS-232 Interface

Alarm 1 BOX 5

Alarm 2 BOX 6

1 = Relay: 2A/240 VAC, SPDT

1 = Relay: 2A/240 VAC, SPST

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

9 = Other

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

9 = Other

- 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

Transformer for Heater Break Alarm (0-50 Amp current) Part Number: TEC99999 Specifications on page 13-47