Model TEC-920 1/16 DIN Temperature Controller

Design Features
- 1/16 DIN size – 48 mm x 48 mm
- Fuzzy Logic PID Autotune heat & cool control
- Short panel depth – only 3-3/8" (86 mm) required
- Universal input, field configurable (Type J T/C default, PT100, mA, V) with high accuracy 18-bit D-A
- Highly versatile – 6 types of inputs available
- Output 2 can be programmed as output or alarm
- Universal input power – 90-250 VAC or 11-26 VAC/VDC
- Highly accurate universal input with 18 bit analog to digital converter
- Bumpless transfer to manual mode during sensor failure
- Wide variety of alarm mode selections
- Optional RS-485 communications interface
- Bright 0.40" (10 mm) LED display
- High performance at a very low price

Agency Approvals:

**Hardware Code:** TEC-920-

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

**Standard lead time is stock to 2 weeks.**

**Power Input**

- 1 = 90-250 VAC
- 5 = 11-26 VAC / VDC
- 9 = Other

**Signal Input**

Universal, can be programmed in the field for item 5 or 6

- 5 = Thermocouple: *J, K, T, E, B, R, S, N, L
- 0-60mV
- 6 = RTD: *PT100 DIN, PT100 JIS
- 7 = 0-1 VDC
- 8 = *0-5, 1-5 VDC
- A = 0-10 VDC
- B = *4-20, 0-20 mA
- 9 = Other

* indicates default value

**Output 1**

- 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 = RS-485 Data Interface
- 8 = Isolated 20V @ 25 mA DC, Output Power Supply
- A = Isolated 12V @ 40 mA DC, Output Power Supply
- B = Pulse DC for SSR drive: 14 VDC (40 mA max)
- C = Isolated 5V @ 80 mA DC, Output Power Supply
- 9 = Other

**Output 2 / Alarm 1**

- 0 = None
- 1 = Relay: 2A / 240 VAC
- 2 = Pulse DC for SSR drive: 5 VDC (30 mA max)
- 3 = Isolated, 4-20 mA (default), 0-20 mA
- 4 = Isolated VDC, 1-5 (default), 0-5, 0-1
- 5 = Isolated VDC, 0-10
- 6 = Triac-SSR output 1A / 240 VAC
- 7 = RS-485 Data Interface
- 8 = Isolated 20V @ 25 mA DC, Output Power Supply
- A = Isolated 12V @ 40 mA DC, Output Power Supply
- B = Isolated 5V @ 80 mA DC, Output Power Supply
- C = Pulse DC for SSR drive: 14 VDC (40 mA max)
- D = 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.