

## Model TEC-920 1/16 DIN Temperature Controller



*Single Display, Configurable for 2 Programmable Outputs!*

### Design Features

- \* 1/16 DIN size – 48 mm × 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:



File #:  
E244198

**Hardware Code:** TEC-920- 1 2 3 4

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** = 11-26 VAC / VDC
- 9** = Other

#### Signal Input— Universal, can be programmed BOX 2

- 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 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

#### Output 2 / Alarm 1 BOX 4

- 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
- 9** = Isolated 5V @ 80 mA DC, Output Power Supply
- C** = Pulse DC for SSR drive: 14 VDC (40 mA max)
- B** = 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.