

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.