Temperature Controllers

www.tempco.com

Model **TEC-7100** 3/16 DIN

Model TEC-7100 3/16 DIN Temperature Controller

Configurable for 4 Programmable Outputs and optional NEMA 4X/IP65 Front Panel!
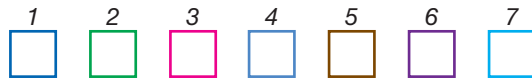
Agency Approvals:

UL ® CE

File #:
E244198

Design Features

✳ *3/16 DIN size – 72 mm × 72 mm*
✳ *Fuzzy Logic PID Autotune heat and cool control*
✳ *Short panel depth – only 2-9/16" (65 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 used for cooling function*
✳ *Universal input power – 90-250 VAC or 11-26 VAC/VDC*
✳ *Optional NEMA 4X/IP65 front panel*
✳ *Bumpless transfer to manual mode during sensor failure*
✳ *Wide variety of alarm mode selections*
✳ *Optional RS-485 communications interface*
✳ *Bright 0.40" (10 mm) red LED process display 0.31" (8 mm) green LED setpoint display*
✳ *High performance at a low price*

Power Input *BOX 1*
4 = 90-250 VAC
5 = 11-26 VAC / VDC
9 = Other

Hardware Code: TEC-7100-

1	2	3	4	5	6	7
☐	☐	☐	☐	☐	☐	☐

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

Signal Input— Universal, can be programmed in the field for item 5 or 6   *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

Alarm *BOX 5*
0 = None
1 = Relay: 2A / 240 VAC, SPDT
9 = Other

Communication *BOX 6*
0 = None
1 = RS-485 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

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

NEMA 4X / IP65 *BOX 7*
0 = No
1 = Yes

⚠ **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.

Output 2 *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 = Isolated 20V @ 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)
A = Other

View Product Inventory @ www.tempco.com