Temperature Controllers

Models TEC-404 & TEC-405 1/4 DIN

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Models TEC-404 & TEC-405 1/4 DIN Temperature Controllers

Dial Setpoint and Display

TEC-405 has been discontinued. Refer to TEC-404 for replacement controllers or contact Tempco.

Design Features

* ✴ 1/4 DIN size – 96 mm × 96 mm
* ✴ Model TEC-404 Temperature Control with dial/potentiometer setpoint
* ✴ Model TEC-405 Temperature Control with pushwheel setpoint
* ✴ Laser trimmed ASIC components
* ✴ On-off or time proportional selection
* ✴ Short panel depth – only 2.0" (51 mm) required
* ✴ Digital display, 0.56" (14 mm) red LED
* ✴ Wide selection of output options
* ✴ Universal power input, 90-264 VAC or 20-32 VAC/VDC
* ✴ Sensor break protection
* ✴ Good performance at a very low price

Agency Approvals:

c UL us   CE

File #: E244198

Potentiometer Setpoint
Hardware Code: **TEC-404-**

1	2	3	4	5	6	7	8
					0		0

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 = 90-264 VAC 50/60 Hz
5 = 20-32 VAC 50/60 Hz, 20 - 32 VDC

Signal Input *BOX 2*
1 = Thermocouple: Type J
2 = Thermocouple: Type K
3 = RTD: 100 ohm PT, DIN 0.00385
4 = RTD: 100 ohm PT, JIS 0.00392
9 = Other

Standard Range Code
(TEC-404 only)   *BOX 3*
4 = 0 to 300°C   **C** = 50 to 550°F
6 = 0 to 600°C   **E** = 50 to 850°F

Below available for large volume orders. Consult Tempco for more information.
2 = 0 to 100°C   **A** = 50 to 200°F
3 = 0 to 200°C   **B** = 50 to 400°F
5 = 0 to 400°C   **D** = 50 to 750°F
7 = 0 to 800°C   **F** = 50 to 1100°F
8 = 0 to 1200°C   **G** = 50 to 1400°F
9 = Other   **H** = 0 to 2200°F

Range code (TEC-405 only)   *BOX 3*
X = 0 to 499°F   **C** = 0 to 299°C
V = 0 to 999°F   **E** = 0 to 499°C
W = 0 to 1999°F   **H** = 0 to 999°C
Other ranges are available for large volume orders. Consult Tempco for more information.

Control Mode *BOX 4*
1 = On - Off (used for valves & solenoids)
2 = Proportional (common for electric heaters)

Output 1 *BOX 5*
1 = Relay: 5A / 240 VAC
2 = Pulse DC for SSR drive: 20 VDC (20 mA max)
3 = 4-20 mA, linear (max load 500 ohms)
4 = 0-20 mA, linear (max load 500 ohms)
5 = 0-10 VDC, linear (min. impedance 500K ohms)
9 = Other

Output 2 *BOX 6*
0 = Not Available

Alarm *BOX 7*
0 = None
1 = Relay: 3A / 240 VAC Deviation alarm

Communication *BOX 8*
0 = Not Available

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