

Temperature Controllers



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

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:



Potentiometer Setpoint

Hardware Code: TEC-404-



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