

Models TEC-402 & TEC-401 1/4 DIN

Models TEC-402 & TEC-401 1/4 DIN Temperature Controllers



With Process Temperature Deviation Meter! Agency Approval:



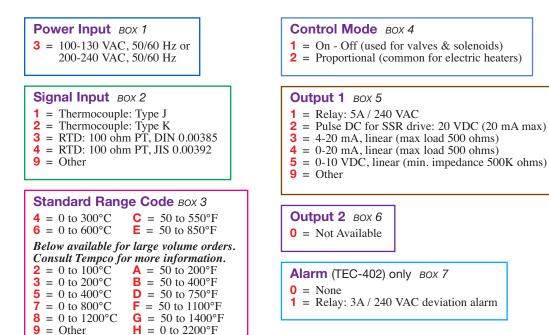
TEC-401 has been discontinued. Refer to TEC-402 for replacement controllers or contact Tempco.

Design Features

- * 1/4 DIN size 96 mm × 96 mm
- * Model TEC-402 temperature control with deviation meter
- * Model TEC-401 non-indicating temperature control
- * Laser trimmed ASIC components
- * Short panel depth only 2.0" (51 mm) required
- * On-off or time proportional selection
- * Wide selection of output options
- * Potentiometer setpoint
- * Sensor break protection
- ***** Good performance at a very low price

With Deviation Meter12345678Hardware Code:TEC-402- \square \square

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



Communication BOX 8 **0** = Not Available

Temperature Controllers



Power Input

100 - 130 VAC, 50/60 Hz, 5VA 200 - 240 VAC, 50/60 Hz, 5VA

Signal Input

Thermocouple: Type J or K RTD: 3-wire Pt100 DIN or JIS Sampling Rate: 3 samples per second Accuracy: ±2% of span Cold Junction Compensation: ±0.1°C / 1°C Common Mode Rejection Ratio (CMRR): 120 dB Normal Mode Rejection Ratio (NMRR): 60 dB Sensor Break Protection: Upscale

Output 1

Relay Rating: 5 Amp, 240 VAC SSR drive: Pulsed DC, 20 V at 20 mA maximum Current Loop: 4 - 20 mA, 0 - 20 mA, maximum load: 500Ω Voltage: 0 - 10 VDC, minimum load $500 \text{ K}\Omega$

Control

Proportional Band: 2.2% of span
ON-OFF Hysteresis: 1% of span
Cycle time: 20 seconds for relay output, 1 second for pulsed voltage output, 0.02 second for linear current or voltage output
Control Action: Reverse Action

Approval Standards

Safety Standard: EN61326 Protective Class: Front panel: IP 30 Housing and Terminals: IP 20

Models TEC-402 & TEC-401 Specifications

Adjustment

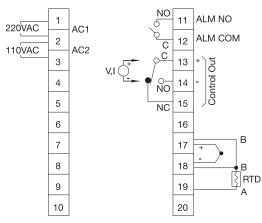
Setpoint: Single turn wirewound potentiometer Setpoint Resolution: 0.2% of span Accuracy of Setpoint: ±2% of span Repeatability of Setpoint: ±0.1% of span

Display

Deviation meter: ±10% of scale (TEC-402) **Non-Indicating** (TEC-401)

Environmental and Physical

Rear Terminal Connections



(For TEC-401 Pins 11 and 12 are not used)

Non-Indicating TEC-401 Stock and Common Part Numbers (Proportional mode)

| Part Number | Signal Input | Range | Output |
|----------------|-----------------|----------|--------|
| TEC57101 | J tc | 50-850°F | relay |
| TEC57102 | J tc | 50-550°F | relay |
| TEC57103 | K tc | 50-850°F | relay |
| TEC57104 | K tc | 50-550°F | relay |
| TEC57105 | RTD | 50-550°F | relay |
| TEC57106 | J tc | 0-300°C | relay |
| TEC57107 | J tc | 0-600°C | relay |
| TEC57108 | K tc | 0-300°C | relay |
| TEC57109 | K tc | 0-600°C | relay |