

## 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:



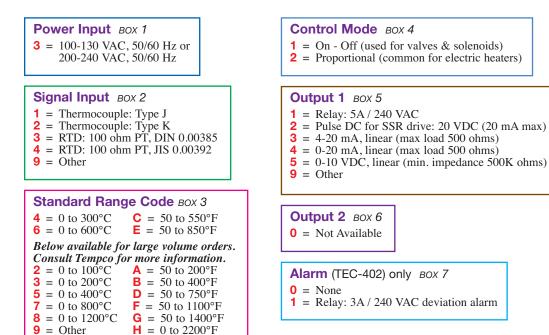
TEC-401 has been discontinued. Refer to TEC-402 for replacement controllers or contact Tempco.

#### **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:  $500\Omega$ 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

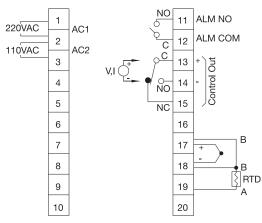
Setpoint: Single turn wirewound potentiometer Setpoint Resolution: 0.2% of span Accuracy of Setpoint: ±2% of span Repeatability of Setpoint: ±0.1% of span

#### 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