Temperature Controllers



Models TEC-402 & TEC-401 Specifications

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: $4 - 20 \text{ mA}, 0 - 20 \text{ mA}, \text{ maximum load: } 500\Omega$

Voltage: 0 - 10 VDC, minimum load 500 K Ω

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

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 Operating Temperature: 32 to 122°F (0 to 50°C)

Humidity: 0 to 90% RH, non-condensing

Dielectric Strength: 2000 VAC, 50/60 Hz for 1 minute

Vibration: 10 - 55 Hz, amplitude 1 mm

Shock: 200 m/s² (20g)

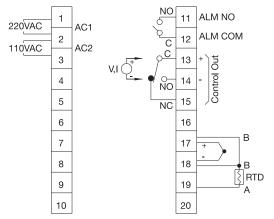
Dimensions: $3-3/4 \times 3-3/4 \times 2-9/16$ " (96 × 96 × 65 mm) H×W×D

Depth behind panel: 2" (53 mm)

Panel Cutout: 3-5/8" × 3-5/8" (92 × 92 mm) H×W

Weight: 0.79 lb. (360 grams)

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