



### Power Input

Standard: 90 - 264 VAC, 50/60 Hz, 5VA

### Signal Input

Accuracy:  $\pm 1.0\%$  of full scale at 77°F/25°C

Thermocouple: Type J or K

RTD: 3-wire Pt100 DIN or JIS

Sampling Rate: 3 samples per second

Cold Junction Compensation:  $\pm 0.1^\circ\text{C} / 1^\circ\text{C}$

Common Mode Rejection Ratio (CMRR): 120 dB

Normal Mode Rejection Ratio (NMRR): 60 dB

Sensor Break Protection: Upscale

### Output

Relay Rating: 240 VAC, 5 Amp

SSR drive: Pulsed DC, 20 V at 20 mA maximum

Current: 4 - 20 mA, 0 - 20 mA, maximum load: 500Ω

Voltage: 0 - 10 VDC, minimum load: 500KΩ

### 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 Standards: EN61326

Protective Class: Front panel: IP 30

Housing and Terminals: IP 20

### Adjustment

Setpoint: Single turn wirewound potentiometer

Manual Reset: Adjustable up to 2.6% of span

Setpoint Resolution: 0.2% of span

Accuracy of Setpoint:  $\pm 2\%$  of span

Repeatability of Setpoint:  $\pm 0.1\%$  of span

### Alarm

Type: Deviation  $\pm 10\%$  of span Relay: 2A / 240 VAC

### Display

Process Indicator: 3-1/2 digit, 0.4" / 10 mm red LED display

Output Status Indicator: Red LED lamp

Alarm Status Indicator: Red LED lamp

### Environmental and Physical

Operating Temperature: 22 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

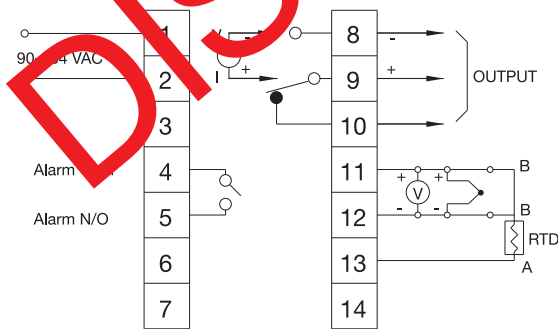
Shock: 200 m/s<sup>2</sup> (20g)

Dimensions: 2-27/32 x 2-7/32 x 3" (72 x 72 x 78 mm) HxWxD  
Depth behind panel: 2-9/16" (65 mm)

Panel Cutout: 2-11/16" x 2-11/16" (68 x 68 mm) HxW

Weight: 53 g (240 grams)

### Real Terminal Connections



### Stock and Common Part Numbers

(Power Input: 90-264 VAC, Proportional mode)

Part Number	Signal Input	Range	Output	Alarm
TEC43401	J tc	50-850°F	relay	none
TEC43402	J tc	50-550°F	relay	none
TEC43403	K tc	50-850°F	relay	none
TEC43404	K tc	50-550°F	relay	none
TEC43405	J tc	50-850°F	relay	relay
TEC43406	K tc	50-850°F	relay	relay
TEC43407	RTD	50-550°F	relay	none
TEC43408	RTD	50-550°F	relay	relay
TEC43409	J tc	0-300°C	relay	none
TEC43410	J tc	0-600°C	relay	none
TEC43411	J tc	0-300°C	relay	relay
TEC43412	K tc	0-300°C	relay	none
TEC43413	K tc	0-600°C	relay	relay
TEC43414	RTD	0-300°C	relay	none
TEC43415	RTD	0-600°C	relay	relay



**Note: TEC-704 has been discontinued. Refer to TEC-7100 (pages 13-30 & 13-31) for replacement controllers or contact Tempco.**