Temperature Controllers

Model **TEC-805** 1/8 DIN



Model TEC-805 1/8 DIN Temperature Controller



Simple Setpoint and Display!

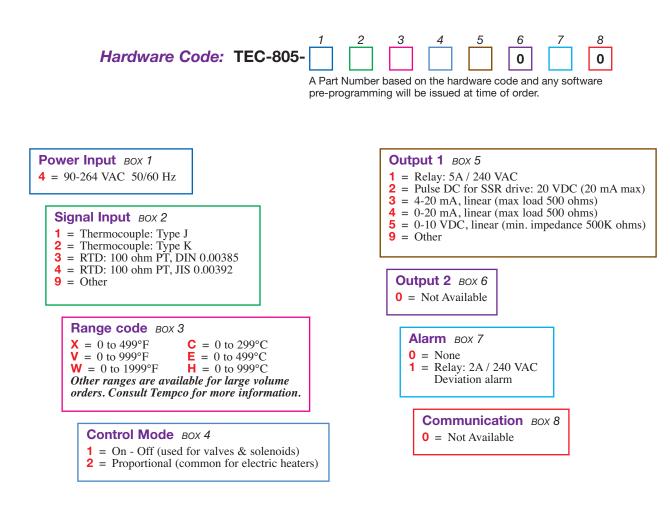
Agency Approvals:



Design Features

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* 1/8 DIN size – 48 mm × 96 mm
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- * Short panel depth only 2-9/16" (65 mm) required
- * Laser trimmed ASIC components
- * On-off or time proportional selection
- * Digital input by pushwheel switch
- * Digital display on 0.4" (10 mm)
- * Wide selection of output options
- * Universal power input, 90-264 VAC
- * Sensor break protection
- * Good performance at a very low price



Temperature Controllers



Power Input

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

Signal Input

Accuracy: ±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: ±0.1°C / 1°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

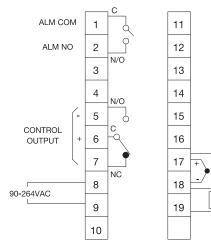
Safety Standard: UL3121-1 Protective Class: Front panel: IP 30 Housing and Terminals: IP 20

EMC: EN61326

Model TEC-805 Specifications (1/8 DIN)

Adjustment

Setpoint: 3-digit or 4-digit pushwheel switch Manual Reset: Adjustable up to 2.6% of span Setpoint Resolution: ± 1 Least Significant Digit Accuracy of Setpoint: ±1% of span Repeatability of Setpoint: ± 1 Least Significant Digit Alarm Type: Deviation ± 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:** 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**: $3-3/4 \times 1-7/8 \times 3-1/8$ " (96 × 48 × 80 mm) H×W×D Depth behind panel: 2-9/16" (65 mm) Panel Cutout: 3-5/8" × 1-25/32" (92 × 45 mm) H×W Weight: 0.42 lb. (190 grams)



Rear Terminal Connections

Stock and Common Part Numbers (Power Input: 90-264 VAC, Proportional Mode)

Part Number	Signal Input	Range	Output	Alarm
TEC35521	J tc	0-999°F	relay	none
TEC35522	J tc	0-499°F	relay	none
TEC35523	K tc	0-1999°F	relay	none
TEC35524	K tc	0-999°F	relay	none
TEC35525	J tc	0-499°C	relay	none
TEC35526	J tc	0-299°C	relay	none
TEC35527	K tc	0-999°C	relay	none
TEC35528	K tc	0-499°C	relay	none
TEC35529	RTD	0-999°F	relay	none
TEC35530	RTD	0-499°C	relay	none