Temperature Controllers



Models **TEC-905** & **TEC-900** 1/16 DIN

Model TEC-905 1/16 DIN Controller & Model TEC-900 1/16 DIN Indicator Only







Display only!

Design Features

- * 1/16 DIN size 48 mm × 48 mm
- * Short panel depth only 3-3/8" (86 mm) required
- * Laser trimmed ASIC components
- * On-off or time proportional selections
- * Wide selection of output options
- * Universal power input, 90-264 VAC
- * Sensor break protection
- * Good performance at a very low price
- * Model TEC-905 control with pushwheel setpoint
- * Model TEC-900 indicator only



View Product Inventory @ www.tempco.com



Temperature Controllers

Models **TEC-905** & **TEC-900** Specifications

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 / 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 1 (for TEC-905 only)

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 (for TEC-905 only)

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

Adjustment (for TEC-905 only) 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 Display Process Indicator: 3-1/2 digit, 0.4" / 10 mm red LED display Output Status Indicator: Red LED lamp (for TEC-905 only) **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 1mm **Shock**: 200 m/s² (20g) **Dimensions**: 1-7/8 × 1-7/8 × 3-3/4" (48 × 48 × 94 mm) H×W×D Depth behind panel: 3-3/8" (86 mm) Panel Cutout: 1-25/32" × 1-25/32" (45 × 45 mm) H×W

Weight: 0.42 lb. (190 grams)

TEC-905 Stock and Common Part Numbers (Power Input: 90-264 VAC, Proportional Mode)

Part Number	Signal Input	Range	Output
TEC17511	J tc	0-999°F	relay
TEC17512	J tc	0-499°F	relay
TEC17513	K tc	0-1999°F	relay
TEC17514	K tc	0-999°F	relay
TEC17515	J tc	0-499°C	relay
TEC17516	J tc	0-299°C	relay
TEC17517	K tc	0-999°C	relay
TEC17518	K tc	0-499°C	relay
TEC17519	RTD	0-999°F	relay
TEC17520	RTD	0-499°C	relay

TEC-900 Stock and Common Part Numbers (Power Input: 90-264 VAC, Indicator Only)

Part Number	Signal Input	Range
TEC17021	J tc	0-1200°F
TEC17022	K tc	0-2000°F
TEC17023	J tc	0-600°C
TEC17024	K tc	0-1100°C
TEC17025	RTD	32-752°F
TEC17026	RTD	0-400°C /

Rear Terminal Connections



NOTE: Terminals 8, 9 and 10 are not used for Model TEC-900.