

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

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



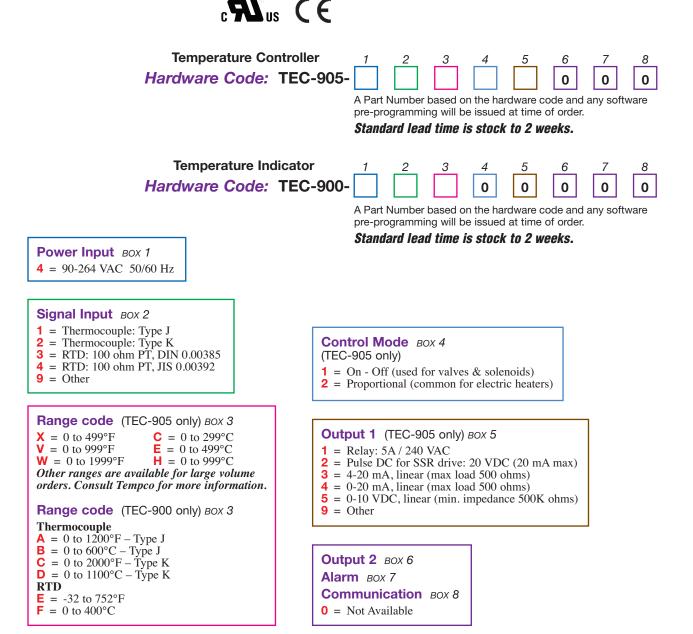




Display only!

#### **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



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# **Temperature Controllers**

# Since 1972 Models TEC-905 & TEC-900 Specifications

## 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/s<sup>2</sup> (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
<b>TEC17026</b>	RTD	0-400°C

# 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

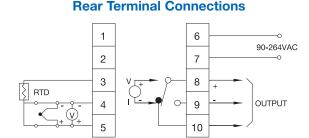
**Cycle time**: 20 seconds for relay output, 1 second for pulsed voltage output, 0.02 second for linear current or voltage output

Control Action: Reverse Action

#### **Approval Standards**

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

**EMC:** EN61326



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