Temperature Controllers

Model TEC-704 Specifications (3/16 DIN)

**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

**Adjustment**
- Setpoint: Single turn wirewound potentiometer
- Manual Reset: Adjustable up to 2.6% of span
- Setpoint Resolution: 0.2% of span
- Accuracy of Setpoint: ±2% of span
- Repeatability of Setpoint: ± 0.1% of span

**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 1mm
- Shock: 200 m/s² (20g)
- Dimensions: 2-27/32 × 2-27/32 × 3" (72 × 72 × 78 mm) H×W×D
- Depth behind panel: 2-9/16" (65 mm)
- Panel Cutout: 2-11/16" × 2-11/16" (68 × 68 mm) H×W
- Weight: 0.53 lb. (240 grams)

**Approval Standards**
- Safety Standards: EN61326
- Protective Class: Front panel: IP 30
- Housing and Terminals: IP 20

**Stock and Common Part Numbers**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Signal Input</th>
<th>Range</th>
<th>Output</th>
<th>Alarm</th>
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