**Power Input**
- **Standard:** (TEC-410) 90-250 VAC, 47-63 Hz, 10 VA, 5W maximum
- **Optional:** 11-26 VAC / VDC, 10 VA, 5W maximum

**Signal Input**
- Resolution: 18 bits
- Sampling Rate: 5 samples / second
- Accuracy: ±2.4% of span typical
- Maximum Rating: -2 VDC minimum, 12 VDC maximum (1 minute for mA input)
- Temperature Effect: ±1.5 μV / °C for all inputs except mA
- Sensor Lead Resistance Effect: T/C: 0.2μV/ohm

**Output 1 / Output 2**
- Relay Rating: 240 VAC, 2Amp
- Solid State Relay (Triac) Output: Rating: 1A / 240 VAC
- Inrush Current: 20A for 1 cycle
- Min. Load Current: 50 mA rms
- Max. Off-state Leakage: 3 mA rms
- Max. On-state Voltage: 1.5 VAC rms
- Insulation Resistance: 1000 Megohms minimum at 500 VDC
- Dielectric Strength: 2500 VAC for 1 minute
- VDC Voltage Supply (Output 2 only):
  - 20 VDC, ±0.5V, at 25 mA
  - 12 VDC, ±0.3V, at 40 mA
  - 5 VDC, ±0.15V, at 80 mA
- Event Input (standard TEC-410, optional TEC-910):
  - Resolution: 18 bits
  - Logic Low: -10 VDC minimum, 0.8 VDC maximum
  - Logic High: 2 VDC minimum, 10 VDC maximum
- Functions: Remote reset, remote lockout

**Output 1**
- Relay Rating: 240 VAC, 2Amp
- Solid State Relay (Triac) Output: Rating: 1A / 240 VAC
- Inrush Current: 20A for 1 cycle
- Min. Load Current: 50 mA rms
- Max. Off-state Leakage: 3 mA rms
- Max. On-state Voltage: 1.5 VAC rms
- Insulation Resistance: 1000 Megohms minimum at 500 VDC
- Dielectric Strength: 2500 VAC for 1 minute

**TEC-410 Stock and Common Part Numbers**
- (Power Input: 90-250 VAC)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Signal Input</th>
<th>Out 1</th>
<th>Out 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEC51001</td>
<td>tc</td>
<td>relay</td>
<td>none</td>
</tr>
<tr>
<td>TEC51002</td>
<td>tc</td>
<td>relay</td>
<td>relay</td>
</tr>
<tr>
<td>TEC51005</td>
<td>tc</td>
<td>SSR-1A</td>
<td>none</td>
</tr>
<tr>
<td>TEC51006</td>
<td>tc</td>
<td>SSR-1A</td>
<td>relay</td>
</tr>
</tbody>
</table>

**TEC-910 Stock and Common Part Numbers**
- (Power Input: 90-264 VAC)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Signal Input</th>
<th>Out 1</th>
<th>Prog. I/O</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEC16001</td>
<td>tc</td>
<td>relay</td>
<td>event input</td>
</tr>
<tr>
<td>TEC16003</td>
<td>tc</td>
<td>SSR-1A</td>
<td>event input</td>
</tr>
<tr>
<td>TEC16004</td>
<td>tc</td>
<td>relay</td>
<td>none</td>
</tr>
<tr>
<td>TEC16006</td>
<td>tc</td>
<td>SSR-1A</td>
<td>none</td>
</tr>
</tbody>
</table>

**NOTE:** See page 13-46 for features common to TEC digital microprocessor-based temperature controls and the complete Table of Input Range and Accuracy.

**TEC-910 Stock and Common Part Numbers**
- (Power Input: 90-264 VAC)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Signal Input</th>
<th>Out 1</th>
<th>Prog. I/O</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEC16001</td>
<td>tc</td>
<td>relay</td>
<td>event input</td>
</tr>
<tr>
<td>TEC16003</td>
<td>tc</td>
<td>SSR-1A</td>
<td>event input</td>
</tr>
<tr>
<td>TEC16004</td>
<td>tc</td>
<td>relay</td>
<td>none</td>
</tr>
<tr>
<td>TEC16006</td>
<td>tc</td>
<td>SSR-1A</td>
<td>none</td>
</tr>
</tbody>
</table>

**TEC-910 1/16 DIN Rear Terminal Connections**

**TEC-410 1/4 DIN Rear Terminal Connections**

**Limit Control**
- Modes available: High Limit, Low Limit and High/Low Limit

**Data Communications**
- Interface: RS-485 (up to 247 units), RS-232, *TEC-410 only*
- Protocol: Modbus Protocol – RTU mode
- Address: 1-247
- Baud Rate: 0.3 - 38.4 Kbits/sec
- Data Bits: 8 bits
- Parity Bit: None, Even or Odd
- Stop Bit: 1 or 2 bits
- Communication Buffer: 50 bytes

**User Interface**
- Single 4-digit LED Displays: 0.4” / 10 mm
- Keypad: 4 keys

**Environmental and Physical**
- Operating Temperature: 14 to 122°F (-10 to 50°C)
- Humidity: 0 to 90% RH, non-condensing
- Dielectric Strength: 2000 VAC, 50/60 Hz for 1 minute

**Dimensions:**
- TEC-410: 3-3/4” × 3-3/4” × 2-9/16” (96 × 96 × 65 mm) H × W × D
  - Depth behind panel: 2” (53 mm)
- Panel Cutout: 3-21/32” × 3-21/32” (93 × 93 mm) H × W
- Weight: 0.33 lb. (150 grams)

**Approval Standards**
- Safety: FM Class 3545 (OCT. 1998)
- CSA: C22.2 No. 24-93
- EN61010-1 (IEC1010-1)
- TEC-410: UL61010C-1
- TEC-910: UL873
- Protective Class: IP30 front panel, indoor use.
- IP20 housing and terminals (with protective cover)
- EMC: EN61326

**TEC-410 & TEC-910 Specifications**

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