**SERIES TTW**

WEATHERPROOF IMMERSION TEMPERATURE TRANSMITTER

Pt100 RTD, PC Programmable Transmitter

The Series TTW Weatherproof Immersion Temperature Transmitter offers a field adjustable temperature transmitter pre-assembled with an RTD sensor and weatherproof enclosure.

**FEATURES/BENEFITS**

- Preset to 32 to 212°F (0 to 100°C) output range
- USB port for easy output scale adjustment in the field

**APPLICATIONS**

- Immersion temperature sensing in HVAC systems

**MODEL CHART**

<table>
<thead>
<tr>
<th>Model</th>
<th>Probe Length</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>TTW-104</td>
<td>4&quot;</td>
<td>$206.00</td>
</tr>
<tr>
<td>TTW-106</td>
<td>6&quot;</td>
<td>$206.00</td>
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<td>TTW-108</td>
<td>8&quot;</td>
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<tr>
<td>TTW-112</td>
<td>12&quot;</td>
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</tr>
<tr>
<td>TTW-118</td>
<td>18&quot;</td>
<td>$210.00</td>
</tr>
</tbody>
</table>

**SPECIFICATIONS**

**TEMPERATURE SENSOR**

- Accuracy: ±3°F (±1.7°C).
- Temperature Limits: Operating: -40 to 302°F (-40 to 150°C).
- Sensor Curves: Pt100 RTD (TE Series Curve D).

**TEMPERATURE TRANSMITTER**

- Input Range: -328 to 986°F (-200 to 530°C).
- Output: Two-wire 4 to 20 mA.
- Output Impedance: 600 Ω @ 24 VDC.
- Power Requirements: 12 to 35 VDC.
- Accuracy: ±0.2% FS.
- Temperature Limits: -40 to 185°F (-40 to 85°C).
- Response Time: <100 ms.

**ENCLOSURE**

- Temperature Limits: -40 to 212°F (-40 to 100°C).
- Rating: NEMA 4X (IP65).
- Material: Painted aluminum housing.

**TECHNICAL SPECIFICATIONS AND ADDITIONAL THERMOWELL MODELS:** See page 161 (Series TE-TNS)

**MODEL CHART**

<table>
<thead>
<tr>
<th>Model</th>
<th>Material</th>
<th>Length</th>
<th>Connection (Internal/External) (NPT)</th>
<th>Price</th>
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<tbody>
<tr>
<td>TE-TNS-N044N-14</td>
<td>304 SS</td>
<td>4&quot;</td>
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<td>1/4&quot; / 1/2&quot;</td>
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<td>1/4&quot; / 1/2&quot;</td>
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<td>1/4&quot; / 1/2&quot;</td>
<td>46.75</td>
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</tbody>
</table>

**SERIES 650**

TEMPERATURE TRANSMITTER

4 to 20 mA Signal, Two Wire Operation, Temperatures from -55 to 180°C

**CALIBRATION SERVICES AVAILABLE**

The Series 650 Temperature Transmitter is ideal for a wide variety of HVAC, industrial and commercial multi-point temperature monitoring applications. Three models are stocked in popular ranges factory calibrated within 0.3% of span.

**FEATURES/BENEFITS**

- Field adjustable span
- Low profile transmitter housing
- Non-polarized wiring

**APPLICATIONS**

- HVAC system monitoring

**MODEL CHART**

<table>
<thead>
<tr>
<th>Model</th>
<th>Range As Stocked</th>
<th>Low Range Limits</th>
<th>Span Limits</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>650-1</td>
<td>-23°C to +10°C</td>
<td>-32°C</td>
<td>24°C</td>
<td>$326.00</td>
</tr>
<tr>
<td>650-2</td>
<td>-7°C to +49°C</td>
<td>-12°C</td>
<td>37°C</td>
<td>326.00</td>
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<tr>
<td>650-3</td>
<td>0°C to +100°C</td>
<td>-12°C</td>
<td>37°C</td>
<td>326.00</td>
</tr>
</tbody>
</table>

Consult factory for special ranges calibrated within the limits of -55°C and +180°C.

**DESCRIPTION**

- Use order code: Description Price
  - NISTCAL-TT1 NIST traceable calibration certificate $121.00

**OPTIONS**

- Use order code: Description Price
  - A-325 Duct mounting kit with flange, fitting and hardware $17.50