**Series TTW**

**Weatherproof Immersion Temperature Transmitter**

**P100 RTD, PC Programmable Transmitter**

The Series TTW Immersion Temperature Transmitter combines three popular products into a single package. Our TBU series head mounted temperature transmitter is factory mounted into our A-709 enclosure. A Pt100 RTD version of our TE series is wired to the transmitter, giving insertion lengths up to 18˝. Each transmitter is factory programmed and calibrated to output a 4 to 20 mA signal proportional to the 32 to 212°F (0 to 100°C) temperature range.

### SPECIFICATIONS

**Temperature Sensor**
- **Accuracy:** DIN Class B: ±0.3°C @ 0°C (±0.54°F @ 32°F).
- **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 msec.

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

### Thermowells

<table>
<thead>
<tr>
<th>Model</th>
<th>Length</th>
<th>Connection (Internal/External)</th>
<th>Price</th>
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<tbody>
<tr>
<td>TE-TNS-N044N-14 4˝</td>
<td>1/4˝ / 1/2˝</td>
<td>$13.25</td>
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<tr>
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**Series 650**

**Temperature Transmitter**

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

The Series 650 Temperature Transmitter combines low cost with small size making it ideal for a wide variety of HVAC, industrial and commercial multi-point temperature monitoring applications. Non-polarized terminals simplify connection to any 12 to 35 VDC power supply. Capable of operation with long cable runs, Series 650 Transmitters are well suited for monitoring air or water temperatures at remote locations. Three models are stocked in popular ranges factory calibrated within 0.3% of span. All are linear within 0.25% of span and may be recalibrated within low range and span limits shown in chart. Low range is temperature corresponding to 4 mA output. Span is temperature difference between Low and High Ranges corresponding to 4 to 20 mA output signal.

### SPECIFICATIONS

**Input:** Silicone-junction transistor.
- **Output Signal:** 4 to 20 mA DC.
- **Power Requirements:** 12 to 35 volts DC.
- **Accuracy:** ±0.3°F @ 20°C (68°F).
- **Linearity:** Within 0.25% of span.
- **Thermal Drift:** Less than 0.5% of span over ambient temperature range of 0 to 50°C (32 to 122°F).
- **Probe Construction:** 10 long, 0.25” OD Type 304 SS.
- **Temperature Limits:** Ambient: 0 to 70°C (32 to 158°F).
- **Temperature Limits:** (Probe): 204°C (400°F).
- **Probe Cable Length:** 7 ft (2.1 m).
- **Voltage Stability:** Output error less than 0.01% of span over the specified supply voltage range.

**Price** — All Series 650 models listed $304.00

**OPTION**
- For NIST traceable calibration certificate, use order code NISTCAL-TT1 $121.00

**ACCESSORY**
- A-325, Duct Mounting Kit with flange, fitting and hardware $16.50

**CALL TO ORDER** | 800/872-9141

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\[\text{For NIST traceable calibration certificate, use order code NISTCAL-TT1 \quad \$121.00} \]

\[\text{\# Items are net priced and are not subject to any discount.} \]