Temperature

**TWR**
Temperature Switch for Liquids
Brass, Stainless Steel

Switching Range: 86...248°F
\( t_{\text{max}} \) 250 °F; \( p_{\text{max}} \) 920 PSIG
Connection: 3/4" NPT

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**TRS**
Thermal Reed
Temperature Switch
Brass, Stainless Steel

Switching Range: 50...248°F
\( t_{\text{max}} \) 250 °F; \( p_{\text{max}} \) 360 PSIG
Connection: 1/4"...1" NPT

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**TDD**
Digital Temperature Switch
Stainless Steel

Switching Range: -58...250°F
\( t_{\text{max}} \) 250 °F; \( p_{\text{max}} \) 1,150 PSIG
Connection: 1/2" NPT, 3/4" NPT, G 1/2, G 3/4, M25x1.5
2 Transistor Switches

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**TDD-..D6**
Digital Temperature Switch
Stainless Steel

Switching Range: -58...250°F
\( t_{\text{max}} \) 250 °F; \( p_{\text{max}} \) 1,150 PSIG
Connection: 6 mm dia. Smooth Probe
2 Transistor Switches

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**DTS**
Temperature Switch
Brass

Measuring Range: -10...200 °C
Connection: 1/2" NPT

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**TNS**
Gas Filled Rigid Stem
Thermometer
Stainless Steel

Measuring Range: -40...1,100 °F
\( p_{\text{max}} \) 350 PSIG
Connection: 1/2"...1" NPT, G 1/2...G 1
Switch Options: Magnetic, Sliding, Inductive, or Pneumatic

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**TNF**
Gas Filled Capillary
Thermometer
Stainless Steel

Measuring Range: -40...1,100 °F
\( p_{\text{max}} \) 350 PSIG
Connection: 1/2"...1" NPT, G 1/2...G 1
Switch Options: Magnetic, Sliding, Inductive, or Pneumatic

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**DTM**
Digital Temperature Indicator/Transmitter
Stainless Steel

Measuring Range: -30...750 °F
\( p_{\text{max}} \) 350 PSIG
Connection: 1/2"...1" NPT, G 1/2...G 1
Analog Output, Limit Switches

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**TSH**
Thermowells for Stem and Capillary Thermometers
Stainless Steel

\( p_{\text{max}} \) 360 PSIG
Connection: 1/2"...1" NPT, Weld Stub

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**TDA**
Digital Temperature Sensor
Stainless Steel

Measuring Range: -58...250°F
\( p_{\text{max}} \) 1,150 PSIG
Connection: 1/2" NPT, 3/4" NPT, G 1/2, G 3/4
Output: 4-20 mA, 3-wire, Transistor Switch

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**TDA-..D6**
Digital Temperature Sensor
Stainless Steel

Measuring Range: -58...250°F
\( p_{\text{max}} \) 1,150 PSIG
Connection: 6 mm dia. Smooth Probe
Output: 4-20 mA, 3-wire, Transistor Switch

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**TNK**
RTD Temperature Sensors
Brass, Bronze, Stainless Steel

Measuring Range: -112...302 °F
\( p_{\text{max}} \) 725 PSIG
Connection: 1/2" NPT, G 1/2, M18x1.5

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<td>Temperature Sensor for Pipes</td>
<td>-40...300 °F</td>
<td>1/4&quot;...1-1/2&quot; NPT</td>
<td>±1% of Full Scale</td>
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<tr>
<td>TSR</td>
<td>RTD Temperature Probes</td>
<td>-320...400 °F</td>
<td>1/2&quot; or 3/4&quot; NPT, 1-1/2&quot; Tri-Clamp®</td>
<td>±1.5% of Measuring Range or 2.5 °C</td>
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<tr>
<td>TST</td>
<td>Integrated Programmable Temperature Transmitter</td>
<td>-58...1,100 °F</td>
<td>1/4&quot; or 1/2&quot; NPT, 1-1/2&quot;...3&quot; Tri-Clamp®</td>
<td>±1.5% of Measuring Range or 2.5 °C</td>
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<tr>
<td>TSA</td>
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<td>-40...150 °C</td>
<td>G 1/4...1-1/2</td>
<td>±1.5% of Measuring Range or 2.5 °C</td>
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<tr>
<td>TGK/TGL</td>
<td>Glass Thermometer</td>
<td>-76...390 °F</td>
<td>1/2&quot; NPT, G 1/2</td>
<td>±1% of Full Scale</td>
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<tr>
<td>DTB</td>
<td>Digital Thermometer - High Accuracy, Battery Powered</td>
<td>-50...400 °F (-50...200 °C)</td>
<td>1/4&quot;...3/4&quot; NPT</td>
<td>±1% of Full Scale</td>
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<tr>
<td>TIR-FA</td>
<td>Stationary Infrared Thermometer</td>
<td>0...-120°C to 100...500°C</td>
<td>10 mV/K or Voltage Model J, K</td>
<td>±1.5% of Measuring Range or 2.5 °C</td>
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<tr>
<td>TIR-SN/-FS/-FG</td>
<td>Stationary Infrared Thermometer</td>
<td>-20...300°C to 1100...2,500°C</td>
<td>Analog Output</td>
<td>±1.5% of Measuring Range/°C</td>
</tr>
<tr>
<td>HND-T120/-125</td>
<td>Precision Hand-Held Thermometer</td>
<td>-50...1,150 °C</td>
<td>Type K Thermocouple</td>
<td>±0.1% - 1.5% of Reading</td>
</tr>
<tr>
<td>HND-T110/-T115</td>
<td>Precision Hand-Held Thermometers</td>
<td>-220...1,768 °C</td>
<td>Type K, N, S, J, T Thermocouples or Pt 100, 4-wire Power Supply</td>
<td>±0.03% of Full Scale</td>
</tr>
<tr>
<td>TWL-ST</td>
<td>Room Thermometer</td>
<td>-20...60 °C</td>
<td>Atmospheric Wall Socket</td>
<td>±1.5% of Full Scale</td>
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<tr>
<td>TBI</td>
<td>Bimetallic Thermometer</td>
<td>-30...500 °C</td>
<td>Installed in Thermowell</td>
<td>±1% of Reading ±1 °C</td>
</tr>
</tbody>
</table>
Temperature

TBE

**Bi-Metal Thermometer**
Stainless Steel

- Measuring Ranges: -50...50 °C to 0...600 °C
- **p**<sub>max</sub> 15 bar
- Fittings: 1/2...3/4 NPT, G 1/2...G 3/4, (Fixed, Rotatable, Slidable)
- Accuracy: Cl. 1.0

TND

**Shaft Thermometer for Diesel Engines**
Steel, Stainless Steel

- Measuring Range: 0...800 °C
- **p**<sub>max</sub> 25 bar
- Fittings: G 1/2, G 3/4
- Accuracy: Cl. 1.0 or 1.6

ST

**Mini Infrared Thermometers**

- Measuring Range: -76...1,400 °F
- Laser Sighting: Single Point and Dual Point
- Power: 2 AAA Batteries
- Accuracy: ± 2% of Reading

TMA/MMA (AUF)

**Temperature Transmitters**
Stainless Steel

- Measuring Range: -358...1,112 °F
- **p**<sub>max</sub> 1,450 PSI
- Connection: 1/4" NPT, 1/2" NPT
- Output: 4–20 mA, 2-wire

MMA/AUF/KUG

**Screw-in Resistance Thermometer**
Stainless Steel

- Measuring Range: -200...400 °C
- **p**<sub>max</sub> 36 bar
- Accuracy: < 0.5% of Span

LTS

**Resistance Temperature Probe**

- Measuring Range: -50...250 °C
- **p**<sub>max</sub> 145 PSI
- Sensor: Pt100, 4-20 mA
- Connection: G 1/2, M12 x 1.5

MWD

**Industrial Resistance Thermometer**
Stainless Steel

- Measuring Ranges: from -324 up to 1112 °F
- **p**<sub>max</sub> 435 PSI
- Accuracy: Cl. A or B

DTE

**Digital Thermometer**
Stainless Steel

- Measuring Ranges: -200...850 °C
- **p**<sub>max</sub> 34 bar
- Display: 6-Digit LCD
- Fittings: 1/4"...1/2" NPT, G 1/4...G 1/2, Compression Fitting
- Accuracy: ± 0.1% of Reading + 0.2°C

TWL/TTL

**Resistance Thermometers**
Stainless Steel

- Measuring Range: -200...1,100 °C
- **p**<sub>max</sub> 3,625 PSIG
- Sensor: Pt100, 4-20 mA
- Connection: 1/2"...1" NPT, G 1/2...1, DIN 15 - 50 Flanges
- Output: Analog 4–20 mA

TWM

**Sheath Resistance Thermometer**
Stainless Steel

- Measuring Range: -20...600 °C
- Sensor: Pt100, 2-, 3-, or 4-wire
- Connection: Cable, Connector, Connection Head

TWA

**Contact Resistance Thermometer**
Aluminum, Stainless Steel

- Measuring Range: -20...260 °C
- Accuracy: Pt 100, Class B

TWL

**Thermowells for Thermometers**
Stainless Steel, Special Materials

- **t**<sub>max</sub> 800 °C
- **p**<sub>max</sub> 250 bar
- Types: Thread, Flange, Welding Sleeve

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