



Temperature Products and Solutions for Industrial and Sanitary Markets

Tel-Tru's temperature and pressure instruments are trusted across a wide range of markets, including industrial processing, food and beverage, biotech, defense, agriculture, solid waste, wastewater management, composting, and more. We approach the temperature monitoring market using a consultative, solutions-based approach derived from listening to our customers' challenges.

**Customer
Focused
Since 1916**



| Product Family | Dial Thermometer | Digital Thermometer Digi-Tel® (Loop Power RTD) | Digital Thermometer Digi-Tel® (Battery Power RTD) | Digital Thermometer Digi-Tru® (Digital Sensor) | Industrial RTD | Smart Temperature Monitoring System Remo-Tel® Industrial |
|------------------------|--|---|---|---|--|---|
| ISO | ISO 9001:2015 certified | ISO 9001:2015 certified | ISO 9001:2015 certified | ISO 9001:2015 certified | ISO 9001:2015 certified | ISO 9001:2015 certified |
| Configurations | Extensive configurations | Extensive configurations | Extensive configurations | Extensive configurations | Extensive configurations | Extensive configurations |
| Warranty | Minimum 1 year warranty, 8 year warranty on most industrial models | 5 year warranty | 5 year warranty | 2 year warranty | 1 year warranty | 1 year warranty |
| Accuracy | Accuracy of ±1% full span per ASME B40.3 Grade AA | High Accuracy up to (+/-) 0.5 Degrees F | High Accuracy up to (+/-) 0.5 Degrees F | High Accuracy (+/-) 0.4 Degrees F | Sensor: Thin film Pt 100 RTD, TCR .00385, Class A +/- .06% at 0°C, Conforms to IEC 751 Class A | Accuracy: ±0.4°F (maximum) |
| Temperature Range | Multiple Ranges Available Min: -150 F (-100 C) Max: 1000 F (550 C) | Multiple Ranges Available Min: -75 F (-60 C) Max: 750 F (400 C) | Multiple Ranges Available Min: -75 F (-60 C) Max: 750 F (400 C) | Multiple Ranges Available Min: -67 F (-55 C) Max: 302 F (150 C) | Multiple Ranges Available Min: -60 F (-50 C) Max: 500 F (260 C) | Multiple Ranges Available Min: -67 F (-55 C) Max: 302 F (150 C) |
| Probe Length | Custom stem lengths from 2" to 120" | 1.625" to 48" Multiple probe length options | 1.625" to 24" Multiple probe length options | 1.625" to 48" Multiple probe length options (based on configuration) | Probe lengths from 1.25" to 18" | 1.625" to 24" Multiple probe length options (based on configuration) |
| Probe Diameter | Multiple probe diameter options | Multiple probe diameter options, .250" diameter is standard | Multiple probe diameter options, .250" diameter is standard | Multiple probe diameter options, .250" diameter is standard | Probe diameter .250" for standard, multiple options available | 0.25" standard probe or .74" plain bulb |
| Probe Material | 304SS or 316SS | 316 stainless steel probe | 316 stainless steel probe | 304SS or 316SS | 316SS | 304SS or 316SS |
| Probe Options | Pointed, blunt, and stepped probe option | Pointed, blunt, and stepped probe option | Pointed, blunt, and stepped probe option | Blunt, and Stepped Probe option | Blunt and pointed | Blunt and pointed |
| Connection Options | Multiple threaded and non-threaded options available | Multiple threaded and non-threaded options available | Multiple threaded and non-threaded options available | Multiple threaded and non-threaded options available | Multiple threaded and non-threaded options available | Multiple threaded and non-threaded options available |
| Style Options | Back, bottom or adjustable angle connection | Back connect, bottom connect, adjustable angle, remote mount | Back connect, bottom connect, adjustable angle | Back connect, bottom connect, adjustable angle, remote mount | Several connection heads available, including 316SS, White Polypropylene, and Cast Aluminum | |
| Display | Glow in the dark option available | Backlit with 1" tall LCD display | 1" tall LCD display | Easy-to-read 0.4" (10mm) tall display | | Monitor process temperatures via web-based app |
| Display Size | 1" - 5" dial sizes available | 5" & 4.5" dial size | 5" & 4" dial size | 3- inch dial size digital thermometers | | |
| Construction | 304SS or 316SS | 316SS | 304SS or 316SS | 304SS or 316SS | 316SS | Industrial Polymer Case and 304SS Probe |
| Calibration | NIST traceable calibration certificate on request | NIST traceable calibration certificate included | NIST traceable calibration certificate included | NIST traceable calibration certificate on request | NIST traceable calibration certificate on request | NIST traceable calibration certificate on request |
| Field Calibratable | Field calibratable (some models) | Field calibratable when used with interface cable & software kit | Field calibrateable when used with interface cable & software kit | | | |
| Industrial or Sanitary | Industrial or Sanitary options available | Industrial or Sanitary options available | Industrial or Sanitary options available | Industrial or Sanitary options available | Industrial or Sanitary options available | Industrial or Sanitary options available |



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|---------------------------|---|---|---|---|--|---|
| Power Options | | Loop Power, 12-32 VDC | Field replaceable battery - Battery life up to 2 years depending on environment | Battery life up to 8 years depending on environment | Transmitter output: Connection head: 40 to 20 mA , HART. Built in Compact Transmitter: 4 to 20 mA, 10-35 VDC | 120-240 VAC Plug-in power supply with built-in battery backup alert when power is lost and continues to operate for up to 48 hours afterwards |
| Sanitary Info | 316SS Tri-Clover® Tri-Clamp fittings | 316SS Tri-Clover® Tri-Clamp fittings | 316SS Tri-Clover® Tri-Clamp fittings | 316SS Tri-Clover® Tri-Clamp fittings | 316SS Tri-Clover® Tri-Clamp fittings | 316SS Tri-Clover® Tri-Clamp fittings |
| | All wetted parts, max. 32 micro-inches (.80 microns) on stem, weld radius, and under-side of flange | All wetted parts, max. 32 micro-inches (.80 microns) on stem, weld radius, and under-side of flange | All wetted parts, max. 32 micro-inches (.80 microns) on stem, weld radius, and under-side of flange | All wetted parts, max. 32 micro-inches (.80 microns) on stem, weld radius, and under-side of flange | All wetted parts, max. 32 micro-inches (.80 microns) on stem, weld radius, and under-side of flange | All wetted parts, max. 32 micro-inches (.80 microns) on stem, weld radius, and under-side of flange |
| | Meet 3-A Sanitary Standard 74-07 requirements | Meet 3-A Sanitary Standard 74-07 requirements | Meet 3-A Sanitary Standard 74-07 requirements | Meet 3-A Sanitary Standard 74-07 requirements | Meet 3-A Sanitary Standard 74-07 requirements | Meet 3-A Sanitary Standard 74-07 requirements |
| | | Meets FDA Rule 21 CFR 113.40 requirements for temperature indicators used in retorts | Meets FDA Rule 21 CFR 113.40 requirements for temperature indicators used in retorts | | | |
| Product Specific Features | Select models hermetic seal per ASME B40.3 dustproof and leakproof excluding BBQ related items | RTD sensor Pt1000 | RTD sensor Pt1000 | Fittings and surface finishes meet 3-A Sanitary Standard 74-07 requirements | Integrated temperature transmitter is microprocessor based and uses a PT-100 RTD for high accuracy | Remote, wireless temperature monitoring system |
| | | IP67 enclosure rating | IP67 enclosure rating | Direct mount IP67 enclosure rating | Direct installation into process piping | 24/7/365 remotely view and download data via cellular |
| | | 4-20mA Output | Durable | Direct or remote mount | 3 teflon insulated lead wires | Streamlines regulation reporting and analysis |
| | | Connects to PLC | High visibility | | Transmitter output: 4 to 20 mA, scaled to factory configured range or user programmable | Get temperature alerts via phone, text, or email |
| | | Durable | Remote monitoring | | High accuracy, long term stability, consistent repeatability | Reduces labor hours and improves efficiency |
| | | High visibility | Wide temperature range | | Fast response time | Built to meet an IP65 rating |
| | | Remote monitoring | Glass or polycarbonate lens options | | Configuration kit for PC-programmable transmitters available separately | |
| | | Wide temperature range | Multiple cable options and lengths | | Compact, vibration resistant | |
| | | Direct or remote mount | Direct or remote mount | | | |
| | | Multiple cable options and lengths | | | | |
| | | Glass or polycarbonate lens options | | | | |
| Cost | \$ | \$\$\$\$ | \$\$\$\$ | \$\$ | \$\$\$ | \$\$\$\$ |
| Custom Dial Available | Yes | Yes | Yes | Yes | No | No |