



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	Check-Set® Calibrator Data Logger
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	ISO 9001:2015 certified
Configurations	Extensive 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	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)	Accuracy: ±0.2°F (0.1°C)
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)	32 F (0 C), 40 F (4.4 C), 160 F (71.1 C), 212 F (100 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)	Supports temperature instruments with probe lengths as short as 3.5"
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	Multiple Options Available Base model supports diameters of 0.125", 0.150" and 0.187"
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	Supports blunt, pointed and stepped up probes
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	Easy-to-use touchscreen display
Display Size	1" - 5" dial sizes available	5" & 4.5" dial size	5" & 4" dial size	3- inch dial size digital thermometers			2.8" display
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	Comes with calibration certificate at purchase. Return to factory for annual recertification.
Field Calibratable	Field calibratable (some models)	Field calibratable when used with interface cable & software kit	Field calibrateable when used with interface cable & software kit				Field calibratable (both models)
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	Plug-in power supply. 115 volts, 50.60 Hz, 1.5 amps
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	Built-in record keeping with an audit trail to meet regulatory compliance mandates
		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	Managers can make adjustments that are stored for traceability
		4-20mA Output	Durable	Direct or remote mount	3 teflon insulated lead wires	Streamlines regulation reporting and analysis	Lockout feature when calibration certificate is expired
		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	Multiple input devices (mouse, keyboard, barcode scanner) for ease-of-use
		Durable	Remote monitoring		High accuracy, long term stability, consistent repeatability	Reduces labor hours and improves efficiency	Create unique user profiles and permissions for tracking data entry
		High visibility	Wide temperature range		Fast response time	Built to meet an IP65 rating	Export data to .csv file for sharing reports
		Remote monitoring	Glass or polycarbonate lens options		Configuration kit for PC-programmable transmitters available separately		Custom set points available for unique operations and faster calibrations
		Wide temperature range	Multiple cable options and lengths		Compact, vibration resistant		Portable with unique serial number
		Direct or remote mount	Direct or remote mount				
		Multiple cable options and lengths					
		Glass or polycarbonate lens options					
Cost	\$	\$\$\$\$	\$\$\$\$	\$\$	\$\$\$	\$\$\$\$	\$\$\$\$ (Call for qty. discount pricing)
Custom Dial Available	Yes	Yes	Yes	Yes	No	No	No



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