

## Industrial Data Thermometer

The only *Bluetooth*® low energy technology-enabled handheld thermometers made in the U.S.A. that offer data logging, storage and transmission out-of-the-box, along with 0.05% accuracy, 1000 hour battery life, a 3 year warranty and IP55/57 water-resistant versions.



**TRUST** is an essential feature in any measurement tool and TEGAM's new 900 and 1000 Series thermometers are instruments you can **rely on every day** with confidence. These new models are the most accurate thermometers ever offered by TEGAM to meet the increasing demands of regulatory requirements in food, pharmaceutical, and materials applications where process temperature measurement is critical. Superior instrument accuracy, combined with the "Probe Offset" feature to zero out probe errors, makes their "system" accuracy unmatched in the industry.

The single channel Model 931A and 1031A, and dual channel 932A and 1032A thermometers boast **1000 hour battery life** using three off-the-shelf AA batteries to provide convenient, dependable, uninterrupted, low-cost portable measurement capability without expensive batteries, AC adapters or chargers.

**Real-time statistical data** increases user productivity, process efficiency and product quality. Displayed on-demand, MIN, MAX, AVG, RANGE and STDEV (standard deviation) provide critical process information and diagnostics that allow the user to analyze manufacturing processes on the fly and make immediate adjustments for maximum efficiency and quality.

The **onboard data-logging** feature of the TEGAM 931A, 932A, 1031A and 1032A thermometers allows users to accurately record and store up to 1000 time-stamped measurements at the touch of a button, review them on the device, and transfer them, using **Bluetooth® low energy technology**, via a mobile device or PC, to local or cloud storage at their convenience. This seamless connectivity allows the user to collect, transmit and store accurate temperature data for analysis or compliance reporting without any additional or third party software.

The creative ergonomic design makes these instruments easy to hold, easy to read and easy to clean. **Designed for one-handed operation**, these tools are comfortable to carry and use for extended periods of time. The smooth, sleek, seamless case means cleaning is quick and simple.

For **enhanced protection against the elements** the 1031A and 1032A are equipped with threaded M12 input connectors that provide a mechanically secure interface and a near water-tight seal to ensure that no contaminants from outside the instrument reach the electronics inside where they may cause damage, erratic operation or measurement errors.

Like all TEGAM products, the 900 and 1000 Series thermometers are designed, assembled and tested in the United States. TEGAM backs this durable instrument with a standard **3 year warranty** to assure you that your investment is sound.

For 30 years, TEGAM has been building hand held thermometers for challenging applications. TEGAM's 900 and 1000 Series extend that experience into a new thermometer tasked with producing **reliable thermocouple measurements in all types of environments**. They are designed to be durable and easy to use, with advanced features that outmatch your challenges.

### FEATURES

- Superior Accuracy  
 $\pm(0.05\% |rdg| + 0.3\text{ }^{\circ}\text{C})$
- Probe Offset
- 1000 Hour Battery Life
- Displays Real-Time Statistical Data
- Data Logging and Wireless Transmission Capability
- Creative Ergonomic Design
- 3 Year Warranty
- Made in USA

**Specifications for Models 931A/932A/1031A/1032A**

<b>Basic Accuracy</b>	±(0.05%  rdg  + 0.3 °C)		
<b>Temperature Ranges</b>	<b>°C</b>	<b>°F</b>	<b>K</b>
<b>K</b>	-250 to 1372	-418 to 2502	23 to 1645
<b>J</b>	-210 to 1200	-346 to 2192	63 to 1473
<b>T</b>	-250 to 400	-418 to 752	23 to 673
<b>E</b>	-250 to 1000	-418 to 1832	23 to 1273
<b>B</b>	600 to 1820	1112 to 3308	873 to 2093
<b>N</b>	-250 to 1300	-418 to 2372	23 to 1573
<b>R</b>	-50 to 1767	-58 to 3213	223 to 2040
<b>S</b>	-50 to 1767	-58 to 3213	223 to 2040
<b>Connector Type</b>	Mini-TC (931A and 932A); M12 (1031A and 1032A)		
<b>Probe Zero Function</b>	Resolution 0.1 °C/°F/K		
<b>Display</b>	4 Digit Auto-Resolution (0.1/1) with Backlight and Function Annunciators		
<b>Reading Rate</b>	3/sec. for Readings and TREND indicators		
<b>Battery Type</b>	3 AA (IEC LR6, ANSI 15) Alkaline		
<b>Battery Life</b>	1000 Hours		
<b>Statistics</b>	Min, Max, Avg, Rng, T1-T2 and Std Dev		
<b>Clock</b>	Real or Elapsed Time based on mode		
<b>Operating Environment:</b>			
<b>Temperature</b>	-20 to 55 °C	-4 to 131 °F	
<b>Humidity</b>	5 to 95%, 10 to 30 °C	5 to 95%, 50 to 86 °F	
<b>Altitude</b>	0 to 4600 m	0 to 15,092 ft.	
<b>Vibration</b>	Random 10-500 Hz, 0.03 g <sup>2</sup> /Hz		
<b>Shock</b>	30g Half Sine		
<b>Drop</b>	4 drops from 1 m to concrete		
<b>Ingress Protection</b>	IP55/57 (1031A and 1032A)		
<b>Dimensions</b>	193 X 84 X 28 mm	7.6 X 3.3 X 1.1 in.	
<b>Weight</b>	362.9 g	12.8 oz	
<b>Communication</b>	Bluetooth® low energy technology / version 4.0, 10 m Range		
<b>Internal Data Storage</b>	Last 1000 Measurements with Time Stamp		
<b>Storage Modes</b>	Automatic and Manual		
<b>Remote Operation</b>	Android™, Apple® Mobile Device Applications		
<b>Internet Data Collection</b>	Via Mobile Device App and TEGAM Cloud™		
<b>Data Storage Rate</b>	User Programmable, 1s Minimum Interval		
<b>Warranty</b>	3 year Parts & Workmanship		
<b>Calibration Guarantee</b>	2 year		
<b>Included Accessories</b>	3 AA Batteries, Quick Start Guide, Certificate of Traceability		
<b>Optional Accessories</b>	Tilt Stand/Magnet/Hanger, Hard Carry Case		
<b>Available Probes</b>	See TEGAM Temperature Probe Selection Guide for available probes.		
<b>Ordering Information</b>	<b>Model</b>	<b>Description</b>	
<b>Thermometers</b>	<b>931A</b>	Data Thermometer, Single Input	
	<b>932A</b>	Data Thermometer, Dual Input	
	<b>1031A</b>	Industrial Data Thermometer, Single Input	
	<b>1032A</b>	Industrial Data Thermometer, Dual Input	
<b>Accessories</b>	<b>911-910</b>	Tilt Stand/Magnet/Hanger	
	<b>911-911</b>	Foam-Filled Hard Carry Case	