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 superior accuracy, 1000–hour battery life, and a 3–year warranty.

TRUST is an essential feature in any measurement tool and TEGAM's new 900 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 931B and dual channel 932B 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 931B and 932B 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.

For custom implementations and integration into existing quality and business systems, TEGAM offers the 900 Series Developers' Kit, model number SDK-93X. Complete with Windows, Android™, and iOS sample programs and source code, *Bluetooth®* adapter, and qualified technical support, the Developers' Kit provides users the ability to design the ideal temperature data collection system for their operations.

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.

Like all TEGAM products, the 900 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 over 30 years, TEGAM has been building hand held thermometers for challenging applications. TEGAM's 900 Series extends that experience into new thermometers 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.

When the Measurement Matters, Be Certain with TEGAM.

FEATURES

- Superior Accuracy
  $\pm(0.04\% \ |rdg| + 0.3 \ °C)$
- 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

DATA THERMOMETER

Specifications

Basic Accuracy*	±(0.04% |rdg| + 0.3 °C)		
Recommended Calibration Cycle	2 years		
Temperature Ranges	°C	°F	K
K	-200 to 1372	-328 to 2502	73 to 1645
J	-210 to 1200	-346 to 2192	63 to 1473
T	-250 to 400	-418 to 752	23 to 673
E	-250 to 1000	-418 to 1832	23 to 1273
B	600 to 1820	1112 to 3308	873 to 2093
N	-250 to 1300	-418 to 2372	23 to 1573
R	-50 to 1767	-58 to 3213	223 to 2040
S	-50 to 1767	-58 to 3213	223 to 2040
Connector Type	Mini-TC		
Probe Zero Function	Resolution 0.1 °C/°F/K		
Display	4-Digit Auto-Resolution (0.1°<1000°, 1°≥1000°) with Backlight and Function Annunciators		
Reading Rate	3/sec. for Readings and TREND indicators		
Battery Type	3 AA (IEC LR6, ANSI 15) Alkaline		
Battery Life	1000 Hours		
Statistics	Min, Max, Avg, Rng, T1-T2 and Std Dev		
Clock	Real or Elapsed Time based on mode		
Operating Environment:			
Temperature	-20 to 55 °C	-4 to 131 °F	
Humidity	5 to 95%, 10 to 30 °C	5 to 95%, 50 to 86 °F	
Altitude	0 to 4600 m	0 to 15,092 ft.	
Vibration	Random 10-500 Hz, 0.03 g^2/Hz		
Shock	30g Half Sine		
Drop	4 drops from 1 m to concrete		
Dimensions	193 X 84 X 28 mm	7.6 X 3.3 X 1.1 in.	
Weight	362.9 g	12.8 oz	
Communication	*Bluetooth*® low energy technology / version 4.0, 10 m Range		
Internal Data Storage	Last 1000 Measurements with Time Stamp		
Storage Modes	Automatic and Manual		
Remote Operation	Android™, Apple Mobile Device Applications		
Data Storage Rate	User Programmable, 1s Minimum Interval		
Warranty	3 year Parts & Workmanship		
Calibration Guarantee	2 year		
Included Accessories	3 AA Batteries, Quick Start Guide, Certificate of Traceability		
Optional Accessories	Tilt Stand/Magnet/Hanger, Foam-Filled Hard Carry Case, Developers' Kit, Printed Manual		
Available Probes	See TEGAM Temperature Probe Selection Guide for available probes.		

Ordering Information	Model	Description
Thermometers	931B 932B	Data Thermometer, Single Input Data Thermometer, Dual Input
Accessories	911–910 911–912 911–911 SDK–93X 931B-900	Tilt Stand/Magnet/Hanger (factory installed) Tilt Stand/Magnet/Hanger (user installed) Foam-Filled Hard Carry Case (911B, 912B, 931B and 932B) 900 Series Developers' Kit Printed Manual

*Accuracy based on recommended calibration cycle.