## TEMPERATURE & HUMIDITY

Selection Guide for Temperature Measurement Instruments and Accessories

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When the Measurement Matters, Be Certain with TEGAM.
Thank you for choosing TEGAM

TEGAM has been designing, manufacturing, selling and supporting thermometry and other test and measurement equipment for over 30 years in Geneva, Ohio.

MEET OUR TEAM

Our expert team is here to create a solution with you for your specific measurement.

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CERTIFICATIONS


When the Measurement Matters, Be Certain with TEGAM.
**THERMOCOUPLE THERMOMETERS**

- **911B/912B**
  - Single Input / Dual Inputs
  - Highest Accuracy
  - ±0.04% [rdg] + 0.3°C
  - °C /°F / K
  - Select J, K, T, E Input
  - 5-Functions: Min/Max/Avg/Range/T1-T2/Std Dev
  - 2000-Hour Battery Life
  - 3-Year Warranty
  - Probe Offset
  - Easy One Hand Operation
  - Cleanable Case for Food Service
  - Shock and Vibration Rated
  - NIST Traceable Certificate Included

- **931B/932B**
  - Bluetooth® Data Collection
  - Single Input / Dual Inputs
  - Highest Accuracy
  - ±0.04% [rdg] + 0.3°C
  - °C /°F / K
  - Select J, K, T, E, R, S, B, N Input
  - Data Logging, 1000 points stored BlueTooth Wireless Transmission sends data to Portable to Cloud or IoT Free APP (IOS or Android) gives you Remote Control of the instrument
  - 6-Functions: Min/Max/Avg/Range/T1-T2/Std Dev
  - 1000-Hour Battery Life
  - 3-Year Warranty
  - Probe Offset
  - Easy One Hand Operation
  - Cleanable Case for Food Service
  - Shock and Vibration Rated
  - NIST Traceable Certificate Included

- **931B KIT**
  - The 931B Thermometer PLUS:
  - Tri-Shape Type-T Hypodermic Probe
  - 911-911 Foam-Filled Hard Carry Case
  - 911-912 User Installed Tilt Stand/Magnetic Hanger
  - SDK-93X Developers Kit Brochure
  - EU Declaration of Conformity
  - ISO 17025 Calibration Report

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Models 865/866 2252 Ω thermistor thermometers: Your best choice for lab accurate temperature measurement in a built-tough handheld. TEGAM’s thermistor thermometers measure temperatures from -55 ºC to +150 ºC (-70 ºF to +300 ºF) with precise accuracy: 0.3 % of the reading. They’re built dust-proof, splash-proof, withstand a six-footdrop and work with all YSI Series 400 probes. Those outstanding qualities — along with the repeatability and long-term stability — make these handheld thermometers ideal for work in the labor in the field.

TEGAM’s 868/869 100 Ω RTD thermometers accept three-wire and four-wire platinum probes, and provide repeatable accuracy of 0.3 ºC. With the exceptional accuracy, repeatability and long-term stability of our thermistor units, TEGAM’s 868/869 platinum RTD thermometers detect and display temperatures from -360 ºF to +1100 ºF. They’re ideal for cryogenic and high-temperature research or industrial monitoring. For your flexibility, we provide a mating connector which allows you to use any 100 ohm RTD probe. These units are housed in heavy-duty ABS cases that are dust-proof, splash-proof and drop-proof.

TEGAM offers a full line of Thermocouple, Thermistor and RTD Probes to meet most industrial needs.

- General Purpose
- Penetration
- Immersion
- Hypodermic Tip
- Air Probe
- Surface Probe
- Fast Response
INDUSTRIAL THERMOCOUPLE CALIBRATORS

The only multi-thermocouple handheld calibrators made in the USA that offer superior accuracy, 500-hour battery life, a 3-year warranty and an ISO 17025 Calibration Report.

Technical Highlights

- **The 940A** can Read, Measure and Simulate the 4 most commonly used thermocouple types J, K, T, E, and mV
- **The 945A** can Read, Measure and Simulate 14 different thermocouples; J, K, T, E, N, R, S, B, G, C, D, L, P, U and mV.
- Full 5 digit display allows 0.01 resolution
- Measure and Source -15 to +85 mV with 1 uV resolution (as mV or a simulated Thermocouple temperature)
- Settable Span Range allows you to focus where you need the accuracy
- Saves the last Set-up so you can start fast the next time
- 10% and 25% of set span steps allow quick checks of system function and linearity

- Slow and Fast ramp functions make checking switches and set points easy
- Backlit Display assures accurate readings in low light conditions
- 500–Hour Battery Life on 3 AA Batteries
- 3–Year Warranty
- Widest Operating Range; -20 to 55°C (-4 to 131°F)
- Probe Calibration/Offset function to compensate for probe offset
- Easy One Hand Operation
- Cleanable Case for Food Service
- Shock and Vibration Rated
- ISO 17025 Calibration Report Included
MULTIFUNCTION CALIBRATORS

TC, PT100, 2252 Thermistor and Ohms

14 TC Types, RTD 100/1000 and Ohms

SAVE TIME

Save time, save money, and meet ISO 9000 with the price/performance leader in temperature calibrators. These meters simulate, source, measure, and record 11 Thermocouple types, plus RTD, Thermistor, and Ohms signals all in one unit. They out-perform the competition in the lab and on the factory floor with 0.2 ° accuracy and 0.1 ° resolution (0.01 ohms). These calibrators increase productivity. They are faster and easier to use than any other calibrator. With 10 memory locations for calibrator setpoints, and a step function you can easily calibrate controllers, thermometers, smart transmitters, and panel meters. Use the ramp feature to quickly check safety switch and alarm setpoints. Convenient “one-touch” keys select functions for both calibrator and thermometer. The 5-digit LCD annunciates all active functions. Programming is a snap. Enter calibrator set points through the calculator style keypad. The step function allows one-touch output of programmed values. When turned off, the units retain your programs for quick repeat use. The thermometer mode lets you read and record measurements for later viewing.
HUMIDITY

High Temperature Solution for Relative Humidity

Model RDP Series
TEGAM’s Model RDP Series outputs a 4-20 mA or 0 V to 1 V signal indicating humidity for low power or battery powered applications. TEGAM’s Humitran duct probes provide a reliable, accurate, and low cost method for monitoring relative humidity plus temperature. Solid state sensors supply excellent sensitivity, fast response and long term stability. Simple hook up and linearized output permit interfacing with most display or control devices.

Model HTRH Series, Duct or Wall Mount
TEGAM’s high temperature solution for RH and temperature monitoring under high temperature conditions. The Humitran-T Series transmitters measure humidity levels from 3% to 95% RH and temperatures from -40 °F to 356 °F (-40 °C to 180 °C). Probes are constructed with stainless steel and Teflon cable.

RHT Series RH & Temperature Transmitter
TEGAM’s solution for monitoring relative humidity and temperature, the RHT Series provides a linearized output current from 4 mA to 20 mA (Model RHT-20C) or a linearized output voltage from 0 V to 1 V DC (Model RHT-10V) representing temperature and humidity. Humidity readings are temperature compensated and the RHT transmitters only require an unregulated DC supply voltage of 6 V to 30 V DC. Model RHT-10V produces a linear voltage from 0 V to 1 V representative of temperature and humidity. Because voltage is used instead of a current loop, less power is consumed which makes this model suitable for battery powered applications.
SPECIALTY THERMOMETER ACCESSORIES

Model: 911–911 Case for 911B, 912B, 931B, 932B, 940A, 945A

Model: Software Developers’ Kit
- Bluetooth LE radio dongle
- Example Windows 10 executable application, source code, and build instructions (implements all features of the 930 series thermometer)
- Example Code for iOS and Android™ Apps
- Documentation for Bluetooth LE interface
- Invitation to private TEGAM User Forum
- TEGAM 931B or 932B Data Collection Thermometers must be purchased separately

Model: 911–910 Tilt Stand, Magnet, Hanger for 911B, 912B, 931B, 932B, 940A, 945A
Hanger attaches to back of handheld thermometer to free hands while taking temperature measurements.