

# TEMPERATURE & HUMIDITY

Selection Guide for Temperature Measurement Instruments and Accessories

MEASURE

LOG/CONNECT

CALIBRATE



911B/912B

SINGLE / DUAL CHANNEL  
THERMOCOUPLE THERMOMETER

931B/932B

SINGLE / DUAL CHANNEL  
DATA LOGGING  
THERMOCOUPLE THERMOMETER

940A/945A

THERMOCOUPLE CALIBRATORS

# 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

TEGAM, Inc. meets the requirements of ISO/IEC 17025:2005 "General Requirements for the Competence of Testing and Calibration Laboratories" through A2LA Certification Number 2018.01.



When the Measurement Matters, Be Certain with TEGAM.



# THERMOCOUPLE THERMOMETERS



## 911B/912B

SINGLE / DUAL CHANNEL  
THERMOCOUPLE THERMOMETER

- Single Input / Dual Inputs
- Highest Accuracy
- $\pm 0.04\%$  [rdg] +  $0.3^{\circ}\text{C}$
- $^{\circ}\text{C}$  /  $^{\circ}\text{F}$  / 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

SINGLE / DUAL CHANNEL  
DATA LOGGING THERMOMETER

- Bluetooth® Data Collection
- Single Input / Dual Inputs
- Highest Accuracy
- $\pm 0.04\%$  [rdg] +  $0.3^{\circ}\text{C}$
- $^{\circ}\text{C}$  /  $^{\circ}\text{F}$  / 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

ISO 17025 CALIBRATED  
DATA COLLECTION KIT

- The 931B Thermometer PLUS:
- Tri-Shape Type-T  
Hypodermic Probe
- 911-912 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

**KEY FEATURE MAKES THIS BEST VALUE!**

The Bluetooth® word is a registered trademark owned by Bluetooth SIG, Inc. and its use by TEGAM, Inc. is under license.

# RTD / THERMISTOR

THERMISTOR

RTD 100  $\Omega$

PROBES



## 865/866

THERMISTOR THERMOMETER

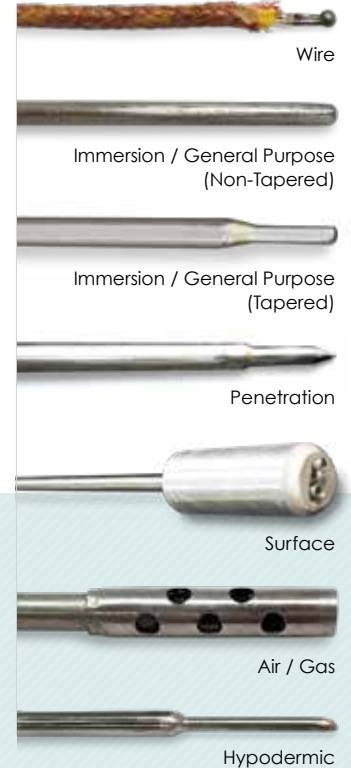
Models 865/866 2252  $\Omega$  thermistor thermometers: Your best choice for lab accurate temperature measurement in a built-tough handheld. TEGAM's thermistor thermometers measure temperatures from -55 °C to +150 °C (-70 °F to +300 °F) with precise accuracy: 0.3 % of the reading. They're built dust-proof, splash-proof, withstand a six-foot drop 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.



## 868/869

RTD THERMOMETER

TEGAM's 868/869 100  $\Omega$  RTD thermometers accept three-wire and four-wire platinum probes, and provide repeatable accuracy of 0.3 °C. 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 °F to +1100 °F. 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.



## Probes

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.



## 940A

THERMOCOUPLE CALIBRATOR



## 945A

THERMOCOUPLE CALIBRATOR

## 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.



850

CALIBRATOR / THERMOMETER

- Accuracy :  $\pm 0.5$  °F TC,
- $\pm 0.2$  °F RTD
- Input Types : K, J, T, E, 1000  $\Omega$ , 100  $\Omega$ , 100  $\Omega$  RTD and 2252  $\Omega$  Thermistor
- Step functionality for fast and easy calibration of process controls and instruments
- Calibrator and Thermometer in one unit
- Certificate of Traceability
- 3-Year Warranty
- Made in USA



855

CALIBRATOR / THERMOMETER

- Accuracy :  $\pm 0.5$  °F TC,
- $\pm 0.2$  °F RTD
- Input Types : K, J, T, E, 1000  $\Omega$ , 100  $\Omega$ , 100  $\Omega$  RTD and 1000  $\Omega$  RTD
- Step functionality for fast and easy calibration of process controls and instruments
- Calibrator and Thermometer in one unit
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# HUMIDITY

## High Temperature Solution for Relative Humidity

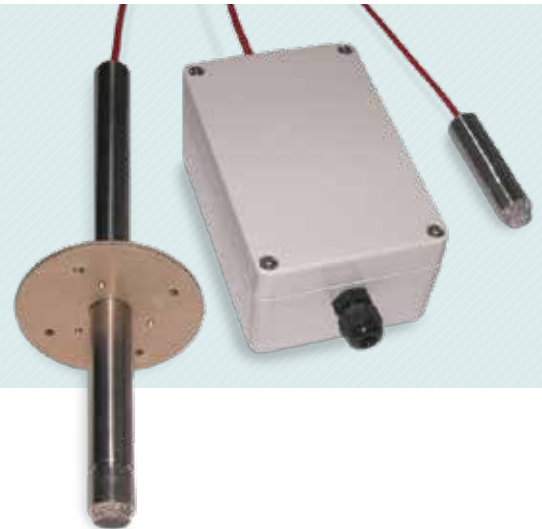


### Model RDP Series

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.



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