

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



THERMOCOUPLE THERMOMETERS



911B/912B

SINGLE / DUAL CHANNEL
THERMOCOUPLE THERMOMETER

- Single Input / Dual Inputs
- Highest Accuracy
- $\pm 0.04\%$ [rdg] + 0.3°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°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
- 911-911 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

KEY FEATURE MAKES THIS BEST VALUE!

RTD / THERMISTOR

THERMISTOR

RTD 100 Ω

PROBES



865/866

THERMISTOR THERMOMETER

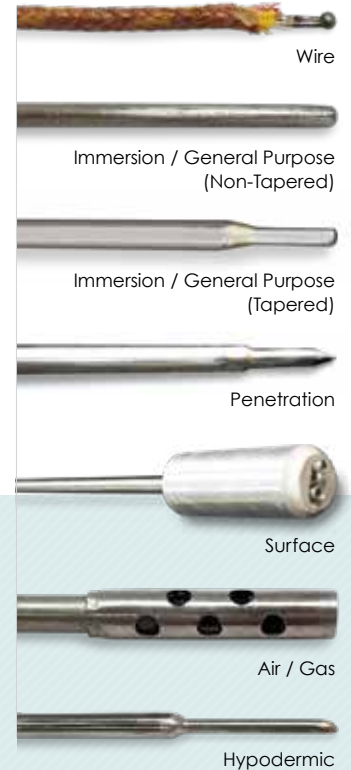
Models 865/866 2252 Ω thermistor thermometers: Your best choice for lab accurate temperature measurement in a built-tough handheld. TEGAM's thermistor thermometers measure temperatures from -55 °C to +150 °C (-70 °F to +300 °F) with precise accuracy: 0.3 % of the reading. They're built dust-proof, splash-proof,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



868/869

RTD THERMOMETER

TEGAM's 868/869 100 Ω 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

HUMIDITY

High Temperature Solution for Relative Humidity

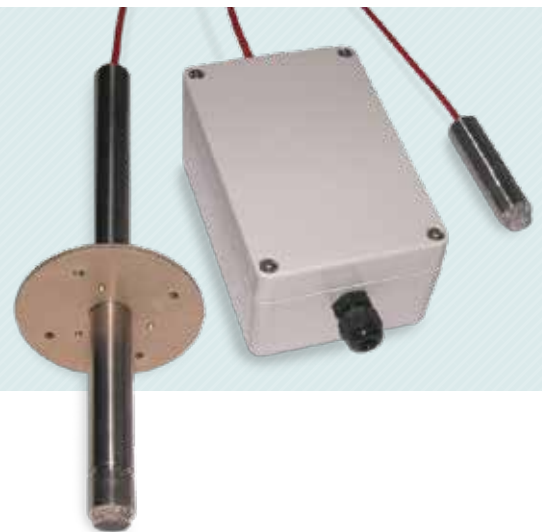


Model RDP Series

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.

