



TEGAM®

THERMOMETRY

HIGH PERFORMANCE
THERMAL SENSING PRODUCTS



When the measurement matters, be certain with TEGAM.

900 SERIES | Thermocouple Thermometers

931B/932B | Wireless Datalogging

- Bluetooth LE connectivity
- Free iOS/Android app (TEGAMLink T)
- Seamless software integration
- Reduces data recording errors
- Support 8 thermocouple types

921B/922B | Intrinsically Safe

- Continuous use in the presence of flammable gases, vapors, and mists
- UL/CSA/ATEX/IECEX certified
- Support 8 thermocouple types

911B/912B | Standard

- 2000-hour battery life
- Support 4 thermocouple types



COMMON FEATURES

- High accuracy: $\pm(0.04\% \text{ rdg} + 0.3^\circ\text{C})$
- Temperature compensation
- Probe offset function
- Ergonomic, one-hand operation
- Smooth contours, easy to clean
- Long battery life (3AA)
- 2-year calibration cycle
- Single-channel and dual-channel models

940 SERIES | Temperature Calibrators

948A | Wireless Datalogging

- Bluetooth LE connectivity
- Free iOS/Android app (TEGAMLink C)
- Seamless software integration
- Reduces data recording errors
- Supports 14 thermocouple types

947A | Intrinsically Safe

- Continuous use in the presence of flammable gases, vapors, and mists
- UL/CSA/ATEX/IECEX certified
- Supports 14 thermocouple types

945A/940A | Standard

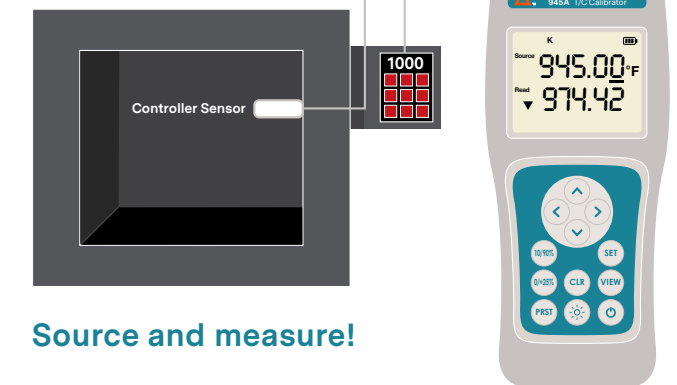
- **945A:** Supports 14 thermocouple types
- **940A:** Supports 4 thermocouple types



COMMON FEATURES

- Laboratory grade
 - High accuracy: $\pm(0.005\% + 5\mu\text{V})$
 - Resolution: 0.01°
 - Environmental compensation
 - ISO 17025 calibration
- Long battery life (3AA)
- AMS2750 calibration option
- Easy one-hand operation

Calibrating a Heat Treat Oven

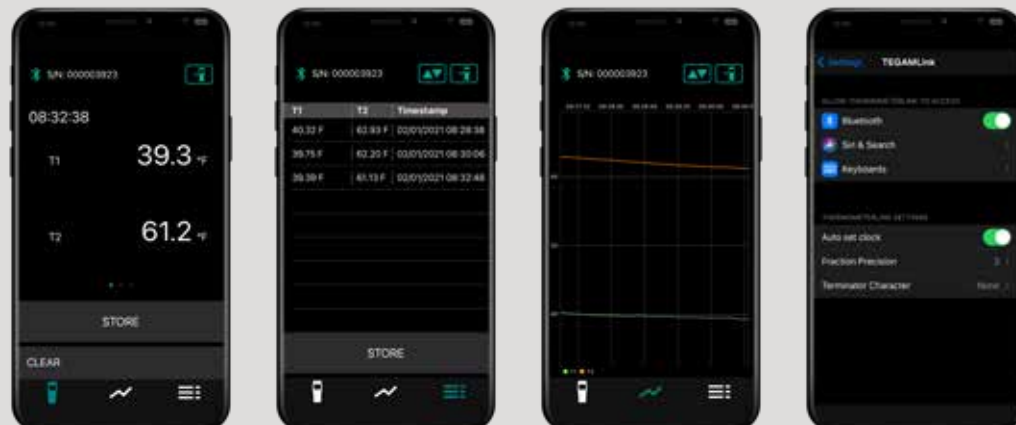
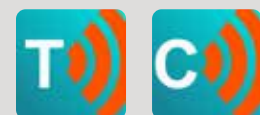


Source and measure!

TEGAMLINK™

TEGAMLINK T APP (shown)

Automates the capture of temperature, time and place data. Reduces chances for recording errors.



Temperature Probes



TEGAM offers a wide spectrum of temperature probes to meet most any thermal sensing application. Built to the highest standards, these probes include many types, styles, and configurations.

AVAILABLE TYPES include:

- Thermocouple Type J
- Thermocouple Type K
- Thermocouple Type T
- RTD
- Thermistor

USAGE TYPES:

- Standard
- Intrinsically Safe

CONFIGURATION OPTIONS include:

- Connector type
- Handle style
- Sheath type and length
- Cord tyle or wire length

TEGAM PROBE SELECTION GUIDE

Configure your probe with the following selections: Select from 2 probe families, 5 sensor types, 3 handle options, 7 tip styles, 8 connector types, and a custom probe length.

OPTION DESCRIPTIONS:

Probe Family select from:

- ISF (Intrinsically Safe Probe)
- S (Probe)

Sensor Type select from:

- J (TC-J)
- K (TC-K)
- T (TC-T)
- X (Thermistor)
- Y (RTD)

Handle select from:

- None
- T Handle
- T1 Shape Handle

Tip Style select from:

- Wire
- Immersion, Non-Tapered
- Immersion, Tapered
- Penetration
- Surface
- Air / Gas
- Hypodermic

Connector Type select from:

- MTC (Thermocouple)
- Probe (Thermistor)
- TAA (RTD)
- M12 (Thermocouple)

Probe Length: Please specify length from handle to tip in 1" increments. **1"** to **48"** (in 1" increments).

SAMPLE CONFIGURATIONS: ISJK104MTC10

ISJK104MTC10: Probe, Type K, T Handle, Penetration Tip, MTC Connector, 10" Probe Length
 ISYK104MTC10: Probe, Type RTD, T1 Shape Handle, Air/Gas Tip, TAA Connector, 10" Probe Length
 ISYK104MTC10: Intrinsically Safe Probe, Type T, T1 Shape Handle, Surface Tip, MTC Connector, 10" Probe Length

CUSTOM DESIGN OPTIONS, available upon request.

Probe Selection Chart



A Complete Range of Thermal Sensing Technologies

	FluorOptic Temperature (FOT) Sensing	Fiber Bragg Grating (FBG)	Thermocouples Thermistor RTDs	Pyrometry	Thermal Imaging	Temperature Calibration
Contact / Non-Contact	Contact	Contact	Contact	Non-contact	Non-contact	In situ
Features	<ul style="list-style-type: none"> Phosphor decay time < 10 points Immune to EMI 	<ul style="list-style-type: none"> Bragg wavelength shift Multipoint (5 to 100) Measure multiple parameters Immune to EMI 	<ul style="list-style-type: none"> Bluetooth capability Data logging, universal SW compatibility Temperature calibrators 	<ul style="list-style-type: none"> Thermal emission intensity < 10 points Two-color, emissivity correction, fixed / handheld, and spatial scanning options 	<ul style="list-style-type: none"> Thermal emission intensity 1000's points (pixels) Cameras in three IR spectral ranges & industrial systems (e.g., FlareSpection) 	<ul style="list-style-type: none"> Products Ex situ In situ
Temp Range	-200 to 400°C	-50 to 650°C	-40 to 760°C	-40 to 3000°C	-40 to 3000°C	-200 to 3000°C
Best Accuracy	0.1 to 0.5°C	0.5°C	0.3°C	1.5°C	2°C	0.1°C
Applications	<ul style="list-style-type: none"> Semiconductor (Etch, wave cure) Medical (MRI, ablation) Transformer monitoring 	<ul style="list-style-type: none"> Medical, industrial, aerospace, civil, EV Emerging: semiconductor (etch, deposition) 	<ul style="list-style-type: none"> Oil & Gas Food industry Pharmaceutical Chemical Aerospace Heat Treat 	<ul style="list-style-type: none"> Semiconductor (RTP deposition) Industrial (glass, steel, crystal growth) 	<ul style="list-style-type: none"> Industrial (glass, steel) Oil and Gas Semiconductor (inspection, offline characterization) 	<ul style="list-style-type: none"> All applications Critical for process targeting, process uniformity, and chamber matching

