Digi-Sense® Remote-Monitoring Thermometers

Measure within doored equipment

- Won't affect door seal—ideal for use in remote measurement applications
- High-impact, chemical-resistant ABS plastic case
- NIST-traceable for more accuracy

DIGI-SENSE

What's included: Probe, carrying case, one 9 V battery, and NIST-traceable calibration report supplied by the manufacturer.

Scale	Type	Range	Resolution	Accuracy	Power	Catalog number	Price
Thermocouple meter							
Fahrenheit	Single input, K	–58 to 1382°F	0.1°F	±(2°F + 0.75%) between 32 to 932°F, and ±(2°F + 1%) between 933 to 1382°F. Below 32°F accuracies are –4 ± 8°F, –40°F ± 8°F, and –58°F ± 10°F	One 9 V battery	GY-86460-03	
Celsius	Single input, K	–50 to 750°C	0.1°C	±(1°C + 0.75%) between 0 to 500°C, and ±(1°C + 1%) between 500 to 750°C. Below 0°C, accuracies are –20 ± 2°C, –40°C ± 4°C, and –50°C ± 5°C		GY-86460-05	
RTD meter							
Celsius	100 Ω RTD	–99 to 199°C	0.1°C	±2°C	One 9 V battery	GY-86460-06	

GY-08439-62 **General-purpose thermocouple type K probe,** 4.5"L
GY-08515-01 **Thermocouple type K probe;** flexible insulated-wire, 3-ft L

GY-17002-10 **NIST-traceable recalibration** with data for thermocouple system (meter with probe)

1° Matters

Calibrate to ensure accuracy of your instrumentation

Temperature Meter, Probe, and System Calibrations

Thermometry type	NIST-traceable report for:	Meter only calibration		Probe only calibration		System (meter and probe) calibration	
		Cat. no.	Price	Cat. no.	Price	Cat. no.	Price
Thermocouple, standard types	Four test points across range of instrument. Meter: –270 to 2316°C (–454 to 4200°F); Probe and System: –80 to 1000°C (–112 to 1832°F). Actual range is dependent on type of probe.	GY-17000-10		GY-17001-10		GY-17002-10	
Thermocouple, cryogenic	Low temperature to –197°C (–322°F)	—	—	—	—	GY-17103-25	
Thermistor	Four test points across range of instrument. Meter, probe, and system: –80 to 150°C (–112 to 302°F)	GY-17000-06		GY-17001-06		GY-17002-06	
RTD	Four test points across range of instrument. Meter: –200 to 1000°C (–328 to 1832°F); Probe and System: –80 to 1000°C (–112 to 1832°F). Actual range is dependent on type of probe.	GY-17000-04		GY-17001-04		GY-17002-04	
Infrared	Four test points across range, –15 to 500°C (5 to 932°F)	GY-17004-00		GY-17004-10		GY-17004-20	
Infrared calibrator	Multiple test points across range, –30 to 1000°C (–22 to 1832°F)	GY-17002-19		—	—	—	—
Bimetal or dial	Four test points across range, –197 to 1000°C (–320 to 1832°F)	—	—	—	—	GY-17003-00	
Glass thermometers	2 to 4 test points across themometer range 5 to 9 test points across themometer range 10 to 15 test points across themometer range	—	—	GY-17006-03 GY-17006-05 GY-17006-06		—	—

InnoCalSolutions.com

INNOCAL® INNOVATIVE CALIBRATION SOLUTIONS

Oakton® Temp-Series Thermometers

Keep hands free during measurements

- Available in Thermocouple, Thermistor or RTD configuration
- Exclusive, 3-way hands-free operation with easy-to-read screen with backlight
- Withstand the toughest conditions—splash-resistant ABS plastic
- Individually calibrated and easy-to-use automatic field calibration ensures accurate readings
- Data logging models log up to 2000 sets of readings in real time with time-and-date stamp

Temp-340 data logging thermometer 91426-50

Single-Input Thermometers (Temp-10, -14, -16) feature an easy-to-use control panel; Min/Max and Hold functions; °F/°C selection; auto shutoff; and low-battery indicator.

Dual-Input Thermometer (Temp-100) is designed for either single or simultaneous dual readings. Store up to 1000 sets of readings in the nonvolatile memory. Take differential temperature measurements with the T1/T2 function. Meter resolution is keypad selectable.

Data Logging Thermometers (Temp-300, -340, -360) can manually store or automatically log up to 2000 sets of readings in real time, and data can be downloaded to your PC via a USB port. Log interval is selectable from 1 second to 60 minutes. Meter also features Min/Max, Hold, and average functions; °F/°C selection; time stamp/clock; count-down timer, and out-of-range alarm with audible/visible indicator; auto shutoff; and low-battery indicator. Temp-300 also features dual inputs; take differential temperature measurements with the T1/T2 function. Meter resolution is keypad selectable.

What's included: protective rubber armor boot with built-in stand and three AA batteries.

OAKTON®

Specifications

Power: three AA batteries (included)

Models 91426-50 and -60, 91427-50:
Data logging: 2000 real-time readings, with time-and-date stamp
Logging interval: 1 second to 60 minutes
Output: USB

Description	Range	Resolution	Accuracy	Catalog number	Price
Thermocouple meters					
Temp-10 single input	Type J: –346 to 2192°F (–210 to 1200°C)	0.1°F/°C between –199.9 to 999.9°, 1° below –199.9° and above 999.9°	Below –238°F (–150°C): ±0.25% of reading ±2°F (±1°C) Above –238°F (–150°C): ±0.1% of reading ±0.7°F (±0.4°C)	GY-91427-00	
	Type K: –418 to 2501°F (–250 to 1372°C)			GY-91427-10	
	Type T: –418 to 752°F (–250 to 400°C)			GY-91427-20	
Temp-100 dual input	Type J: –346°F to 2192°F (–210°C to 1200°C) Type K: –418°F to 2501°F (–250°C to 1372°C) Type T: –418°F to 752°F (–250°C to 400°C) Type E: –418°F to 1832°F (–250°C to 1000°C)	0.1°F/°C between –99.9 to 999.9°, 1° below –99.9° and above 999.9°	Below –148°F (–99.9°C): ±0.25% of reading ±2°F (±1°C) Above –148°F (–99.9°C): ±0.1% of reading ±0.7°F (±0.4°C)	GY-91427-40	
Temp-300 dual input with data logging	Type J: –346 to 2192°F (–210 to 1200°C) Type K: –418 to 2501°F (–250 to 1372°C) Type T: –418 to 752°F (–250 to 400°C) Type E: –418 to 1832°F (–250 to 1000°C) Type R: 32 to 3214°F (0 to 1768°C) Type S: 32 to 3214°F (0 to 1768°C) Type N: –418 to 2372°F (–250 to 1300°C) Type B: 392 to 3272°F (200 to 1800°C)	0.1°F/°C between –199.9 to 999.9°, 1° below –199.9° and above 999.9°	Type J, K, T, E, and N: ±0.25% of reading ±2°F (±1°C) below –148°F (–99.9°C), ±0.1% of reading ±0.7°F (±0.4°C) above –238°F (–150°C) Type R, S, and B: ±0.1% of reading ±2°F (±1°C)	GY-91427-50	
Thermistor meters					
Temp-14 single-input	–40.0 to 302.0°F (–40.0 to 150.0°C)	0.1°F/°C	From –40.0 to 257.0°F (–40.00 to 125.0°C): ±0.4°F (±0.2°C) From 257.0 to 302.0°F (125.0 to 150.0°C): ±0.9°F (±0.5°C)	GY-91426-00	
Temp-340 single-input with data logging	–40.00 to 302.0°F (–40.00 to 150.0°C)	0.01 or 0.1°F/°C; auto-ranging to 0.1° above +99.99°	From –40.00 to 99.99°F (–40.00 to 99.99°C): ±0.06°F (±0.03°C) From 100.0 to 257.0°F (100.0 to 125.0°C): ±0.1°F (±0.1°C) From 257.0 to 302.0°F (125.0 to 150.0°C): ±0.9°F (±0.5°C)	GY-91426-50	
RTD meters					
Temp-16 single-input	–328 to 1562°F (–200 to 850.0°C)	From –328 to –148°F (–200 to –100°C): 1°F/°C From –148 to –392°F (–99.9 to –199.9°C): 0.1°F/°C From 392 to 1562°F (200 to 850°C): 1°F/°C	From –328 to –148°F (–200 to –100°C): ±4°F (±2°C) From –148 to –392°F (–99.9 to –199.9°C): ±0.4°F (±0.2°C) From 392 to 1562°F (200 to 850°C): ±4°F (±2°C)	GY-91426-20	
Temp-360 single-input with data logging	–330 to 2210°F (–201 to 1210°C)	From –330 to –100°F/°C: 0.1°F/°C From –99.99 to 99.99°F/°C: 0.1°F/°C Above 1000°F/°C: 0.1°F/°C	From –330 to –100°F/°C: ±0.1°F/°C From –99.99 to 99.99°F/°C: ±0.06°F/±0.03°C Above 1000°F/°C: ±1°F/°C	GY-91426-60	

Accessories

GY-35427-85 **Oakton "Hands-Free" option** includes two magnets and hook-and-loop strap

GY-35427-80 **Replacement boot** with built-in stand

Don't Get Burned—Gain More Confidence in Your Readings

Digi-Sense® Precalibrated Thermocouple Thermometers

- Compact, affordable units provide accurate and dependable readings
- No need to worry about reading measurements—large, backlit LCD makes readings easy
- Choose the model that's right for you

General-Purpose Thermocouple Thermometers

Meters accept both type K or J thermocouple probes with miniconnector. The two- and four-channel models provide data logging of up to 18,000 readings; USB interface lets you easily download data to a PC for analysis with included software.

Professional Thermocouple Thermometers with IR Input

These durable meters deliver accurate readings in an ergonomic design. Models accept type K probes and an optional infrared (IR) wand for non-contact measurements from a distance. Two- and four-channel models continually scan each channel for real-time measurements. Data logging models allow you to download and analyze data fully.

What's included: type K bead wire temperature probe (one for each input), batteries, and NIST-traceable calibration report with data supplied by InnoCal. Data logging models also include USB cable and software.

20250-01

20250-17

DIGI-SENSE

- ✓ **Save time and money—** precalibrated to NIST-traceable standards before you receive it
- ✓ **Don't let** probe errors interfere with readings—electronic offset compensates for errors
- ✓ **Choose your readout—** measures in °F, °C, or Kelvin (K) with 0.1 resolution
- ✓ **Features** for your convenience:
  - Min/Max/Avg
  - Hold
  - Relative time stamp
  - Auto-off to save battery life
- ✓ Take measurements from a distance with **optional infrared wand** on Professional series

Precalibration provided by
INNOCAL®
Precalibration I Recalibration I Onsite
InnoCalSolutions.com

Description	General-purpose thermometers			Professional thermometers with IR input			
Catalog number	GY-20250-01	GY-20250-02	GY-20250-03	GY-20250-18	GY-20250-17	GY-20250-19	GY-20250-20
Thermocouple (T/C) inputs	1 (type K or J)	2 (type K or J)	4 (type K or J)	1 (type K)	2 (type K)	2 (type K)	4 (type K)
Infrared (IR) input	No			Yes, with optional IR wand 20250-24 (order below)			
T/C range	K: –328 to 2501°F (–200 to 1372°C) J: –346 to 2012°F (–210 to 1100°C)			K: –328 to 2501°F (–200 to 1372°C)			
IR range	—			–31 to 1022°F (–35 to 550°C)			
Resolution	0.1°F/C below 1000°, 1°F/C above 1000°			0.1°F/C below 1000°, 1°F/C above 1000°			
T/C accuracy	Above –148°F (–100°C): ±[0.5% rdg + 1.8°F (1°C)] Below –148°F (–100°C): ±[0.5% rdg + 3.6°F (2°C)] Differentials: ±[0.5% rdg + 3.6°F (2°C)]			Above –148°F (–100°C): ±[0.15% rdg + 1.8°F (1°C)] Below –148°F (–100°C): ±[0.5% rdg + 3.6°F (2°C)] Differentials: ±[0.5% rdg + 1.8°F (1°C)]			
IR accuracy	—			Above 14°F (–10°C): ±[2.0% rdg + 3.6°F (2°C)]; Below 14°F (–10°C): ±9°F (5°C); T/C–IR differentials: ±[2.0% rdg + 5.4°F (3°C)] above 14°F (–10°C); ±11°F (6°C) below 14°F (–10°C)			
Data logging	No	18,000 points		No		18,000 points	10,000 points
USB interface	No	Yes		No		Yes	
Temp differential	No	Yes		Yes			
Scan function	No			No	Yes		
Dimensions	6½" x 2½" x 1⅛" (16.5 x 6.4 x 2.9 cm)			8" x 3" x 2" (20.1 x 7.5 x 5 cm)			
Price							

Accessories

GY-20250-24 **Optional infrared wand** for Professional thermocouple thermometers only. Features 8:1 distance-to-spot ratio. Measures 6½" x 2" x 1½" (16.4 x 5 x 4 cm). Includes one 9 V battery

GY-09376-00 **Replacement batteries,** AAA. Pack of 12

GY-09376-04 **Replacement batteries,** 9 V. Pack of 4

Optional IR wand
20250-24

Digi-Sense® Scientific Thermistor and RTD Thermometers

Get more accuracy from your thermometer

- Display one, two, or three significant figures after the decimal point
- Available in thermistor or RTD versions
- Download data to computer for further analysis

DIGI-SENSE®

Meter features a splashproof membrane keypad, Memory and Hold functions, an internal data logger that captures the Min/Max temperature every hour for a 24-hour period, and °F/°C selection. The fast-response general-purpose penetration probe (included) displays even the slightest temperature change instantly. Readings are updated three times a second.

What's included: General-purpose penetration probe, plastic carrying case, one 9 V battery, and NIST-traceable calibration report supplied by the manufacturer.

Model	Description	Cat. no.	Price
4000 (USB)	Single-input thermistor thermometer with USB input general-purpose probe	GY-90080-09	
6412 (USB)	Single-input RTD thermometer with USB input general-purpose probe	GY-37804-06	
6413 (USB)	Single-input RTD thermometer with USB input flexible wire bullet probe	GY-37804-07	
Probes			
4021	Micro probe for model 4000 USB	GY-90080-19	
4111	Replacement general-purpose probe for model 4000 USB	GY-90080-18	
6422	Replacement general-purpose probe for model 6412 USB	GY-37804-08	
6423	Replacement flexible wire bullet probe for model 6413 USB	GY-37804-09	

Specifications

Range: –58 to 302°F (–50 to 150°C)
Resolution: 0.001°
Accuracy: ±0.05°C between 0.0 to 100°C
Output: USB
Dimensions (W x H x D): 5½ " x 3½ " x 1¼" (140 x 89 x 32 mm)
Power: One 9 V battery (included)

Accessories

GY-90080-21 **Data acquisition** with USB cable
GY-90225-22 **AC adapter**
GY-90225-29 **Padded carrying case**
GY-09376-04 **Replacement batteries,** 9V. Pack of 4
GY-17002-06 **NIST-traceable calibration** with data for meter and probe
GY-17002-04 **NIST-traceable calibration** with data for RTD meter and probe

Digi-Sense® Thermocouple Thermometer

Don't wait for measurements

- Fast-response microprocessor updates the display twice a second
- Water-resistant case
- NIST-traceable calibration for more accuracy

The meter features Recall, Min/Max, Hold, °F/°C selectable units, count-up timer, and high/low alarm. Accepts type K thermocouple probes with miniconnector. Backlighting button permits reading in dark areas.

What's included: beaded-wire type K probe, three AAA batteries, and NIST-traceable calibration report supplied by the manufacturer.

DIGI-SENSE®

Specifications

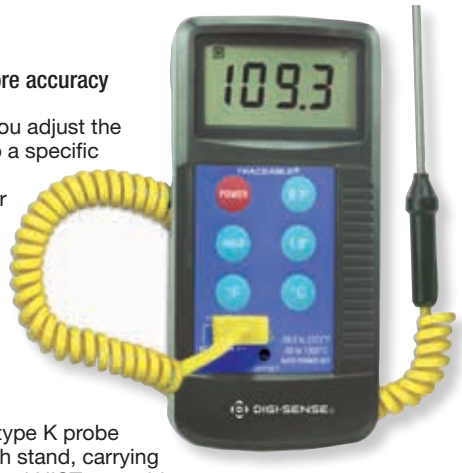
Resolution: 0.1°F/°C between –199 to 1369°F (–128 to 742°C) outside range resolution 1°F/°C
Accuracy: ±1° from –58 to 1364°F (–50 to 740°C), otherwise ±2°
Power: three AAA batteries (included)

Type	Range	Catalog number	Price
Single input, K	–328 to 2498°F (–200 to 1370°C)	GY-91210-30	

Digi-Sense® Workhorse Thermocouple Thermometer

Get accurate measurements, affordably

- NIST-traceable for more accuracy



Adjustable offset lets you adjust the thermometer exactly to a specific temperature, in-house calibration, or particular sensor for increased accuracy. Workhorse features Hold button, °F/°C selectable units, and auto power-off. Accepts every type K thermocouple probe with miniconnector.

What's included: one type K probe (5"L x ⅛" dia tip), bench stand, carrying case, one 9 V battery, and NIST-traceable calibration report supplied by the manufacturer.

DIGI-SENSE®

Specifications

Resolution: 0.1° between –50.0 to 200°C and 1° otherwise
Accuracy: ±(1°C + 0.75%) from 0 to 500°C; ±(1°C + 1%) from 500 to 750°C; ±(1°C + 2%) from 750 to 1000°C; ±(3°C + 4%) from 1000 to 1200°C; ±2°C at –20°C; ±3°C at –40°C; and ±4°C at –50°C
Power: one 9 V battery (included)

Type	Range	Catalog number	Price
Single input, K	–58 to 2372°F (–50 to 1300°C)	GY-91210-45	

Digi-Sense® Two-Channel Thermocouple Thermometer

Protect against accidental damage

- Front-panel offsets for temperature adjustment
- Rubberized case, wrist strap, and built-in stand
- NIST-traceable

Large LCD shows temperatures of probe 1, probe 2, or the difference (delta) of the two probes. Rubberized case makes the meter weather- and shockproof. Product features include Max, Hold, T1, T2, delta (T1–T2), °F/°C selectable units, and on/off buttons. Accepts type K thermocouple probes with miniconnector.

What's included: two beaded-wire type K probe, PVC protective casing with flip-out stand, one 9 V battery,and NIST-traceable calibration report supplied by the manufacturer.

DIGI-SENSE®

CE

Specifications

Resolution: 1°F/°C
Accuracy: ±0.3% + 0.1°C
Power: one 9 V battery (included)

Type	Range	Catalog number	Price
Dual input, K	–58 to 2000°F (–50 to 1300°C)	GY-91210-31	

Accessories

GY-08439-62 General-purpose thermocouple type K probe, 4.5"L (11.4 cm)
GY-08515-01 Thermocouple type K; flexible insulated-wire probe, 3 ft L (7.6 cm)
GY-09376-04 Replacement batteries, 9 V. Pack of 4
GY-17002-10 NIST-traceable recalibration for thermocouple system (meter and probe)

12-Channel Data Logging Thermocouple Thermometer with SD Card

Get twelve readings instantly

- Use existing thermocouples—accepts types J, K, T, E, S, and R
- Get more accurate readings with automatic temperature compensation
- Capture and download data easily—up to 20,000 records via 2GB SD card
- No additional software needed to analyze data

Stream data directly to a computer using the RS-232 port on the meter. Additional meter features include Min/Max, hold, offset adjustment, loop data recording, sampling interval, date-and-time stamp, temperature unit of measure, period or comma decimal point division, auto power off, and low-battery indicator.

What's included: Two type K bead wire temperature probes, 2 GB SD card, and hard carrying case.

CE

Model number	DT4208SD
Catalog number	GY-37803-08
Range	Type J: –148 to 2102°F (–100 to 1150°C) Type K: –148 to 2372°F (–100 to 1300°C) Type T: –148 to 752°F (–100 to 400°C) Type E: –148 to 1652°F (–100 to 900°C) Type R: 32 to 3092°F (0 to 1700°C) Type S: 32 to 2732°F (0 to 1500°C)
Resolution	Types J, K, T, E: 0.1° below 1000°F (537°C) and 1° above 1000°F (537°C) Types R, S: 1°
Accuracy	Types J, K, T, E: ±0.4% of reading +2° max Types R, S: ±0.5% of reading +2° max
Data logging	Auto store up to 20,000 records using 2 G SD card
Output	SD card and RS-232 interface
Dimensions (W x H x D)	5" x 8¾" x 2½" (125 x 225 x 64 mm)
Power	Eight AA batteries or 9 VDC AC adapter
Price	

Accessories

GY-37803-70 SD card reader with USB interface
GY-37803-09 9 VDC adapter for 110 VAC power supply
GY-09376-01 Batteries, AA. Pack of 4
GY-17002-10 NIST-traceable calibration with data for thermocouple meter and probe

Teky's Tips

Knowing the Differences

In selecting a digital temperature meter, here are some things to keep in mind:

Digital Indicators are used for general purposes such as monitoring the temperature of freezers or displaying ambient temperatures. Their accuracy varies by model, but they are easy to read.

Thermocouple Meters and Probes work at a wide range of temperatures at both extremes and are immune to shock and vibration, although they are less accurate than thermistors or RTDs.

Resistance Temperature Detector (RTD) Meters and Probes offer excellent accuracy, stability, and repeatability over a wide temperature range but are sensitive to mechanical shock.

Thermistor Meters and Probes have exceptional accuracy over ambient and biological temperature ranges, but may be damaged outside the biological range. Thermistor probes are highly sensitive to small temperature changes and can be fragile.

12-Channel Scanning Thermocouple Thermometer

Don't lose your data

– Store and recall up to 4680 sets of readings with time and date
– Bidirectional RS-232 for setup or PC data logging
– Field calibrate each probe separately
– RF immunity—maintains accuracy in RF fields

Each of the 12 thermocouple inputs is programmable and can be adjusted to scan from every four seconds to every hour. Link units in series to expand the number of channels you can scan. Meter also features a built-in real-time clock, RS-232 output, parallel printer connection, and graphing software.

Accepts thermocouple probes with miniconnector for quick and easy probe changes.

DIGI-SENSE

Specifications

Resolution: 0.1°/1° selectable up to 999.9°; 1° above 1000° and below –150°F/°C
Accuracy:
J, K, T, E, N: ±0.1% of reading, ±0.8°F (±0.5°C) above –240°F (–150°C); ±0.25% of reading, ±2°F (±1°C) below –240°F (–150°C)
R, S, B: ±0.1% of reading, ±4°F (±2°C)
Digital output:
RS-232, parallel printer output; DB25F connector
Scan rate: from 4 seconds/12 channels to 99 minutes 59 seconds/12 channels
Dimensions (L x W x H):
7½" x 10½" x 3½" (19.1 x 26.7 x 8.9 cm)

Type	Range	Power	Cat. no.	Price
Twelve inputs; J, K, T, E, N, R, S, B	J: –392 to 1832°F (–200 to 1000°C) K: –418 to 2501°F (–250 to 1372°C) T: –418 to 752°F (–250 to 400°C) E: –418 to 1832°F (–250 to 1000°C) N: –418 to 2372°F (–250 to 1300°C) R: 32 to 3214°F (0 to 1768°C) S: 32 to 3214°F (0 to 1768°C) B: 392 to 3272°F (200 to 1800°C)	115 VAC, 50/60 Hz	GY-92000-00	
		230 VAC, 50/60Hz	GY-92000-05	

Accessories

GY-17003-00 **NIST-traceable calibration** with data

Economical Type J/K Thermocouple Thermometers

One meter accepts both type J and K probes

– Read two temperatures simultaneously and differential with dual-input meter

Features include Min/Max, Hold, °F/°C selectable units, relative temperature, and auto power-off after 30 minutes of inactivity to save on battery power. Available in single and dual input, with results displayed on a large 1¼" x 1¾" LCD. Order optional probes and other accessories separately.

What's included: beaded-wire probe (two probes for 94461-12) and one 9 V battery.

Specifications

Accuracy:
From –200 to 200°F/°C and above 400°F/°C: ±0.3% of reading + 2°F/1°C
All other temperatures: ±0.5% of reading + 2°F/1°C
Resolution: 0.1°F (0.1°C)
Power: one 9 V battery (included)

Type	Range	Catalog number	Price
Single input; J, K	J: –328 to 1922°F (–200 to 1050°C) K: –328 to 2498°F (–200 to 1370°C)	GY-94461-11	
Dual input; J, K		GY-94461-12	

GY-08439-60 **General-purpose thermocouple type J probe,** 4.5" (11.4 cm) L
GY-08439-62 **General-purpose thermocouple type K probe,** 4.5" (11.4 cm) L
GY-08515-00 **Thermocouple type J probe,** flexible insulated-wire, 3 ft (0.9 m) L
GY-08515-01 **Thermocouple type K probe,** flexible insulated-wire, 3 ft (0.9 m) L
GY-94461-25 **Water-resistant pouch**
GY-09376-04 **Replacement batteries,** 9 V. Pack of 4
GY-17002-10 **NIST-traceable calibration** for thermocouple system (meter and probe)

Compact Foodservice Thermocouple Thermometers

Don't risk food contamination

- Ideal for use in the food industry
- IP55-rated waterproof case is shock-resistant

The use of an advanced internal microprocessor that updates every five seconds and a highly accurate type T thermocouple produces an accuracy of ±0.8%. Unit features a Hold function, °F/°C selectable units, and auto power-off after 15 seconds of inactivity to save on battery power.

What's included: CR-2032 battery, and NIST-traceable calibration report supplied by the manufacturer.

91210-35

91210-36

Specifications

Resolution:
0.2°F (0.1°C) from –76 to 390°F (–60 to 199°C);
1°F/°C for remaining

Accuracy: ±1.4°F (±0.8°C) or ±0.8% whichever is greater

Power: one CR-2032 battery (included)

Type	Range	Catalog number	Price
Single input, T, remote	–58 to 660°F (–50 to 350°C)	GY-91210-35	
Single input, T, attached		GY-91210-36	

GY-09376-17 **Replacement battery,** CR-2032. Pack of 6

GY-17002-10 **NIST-traceable recalibration** for thermocouple system (meter and probe)

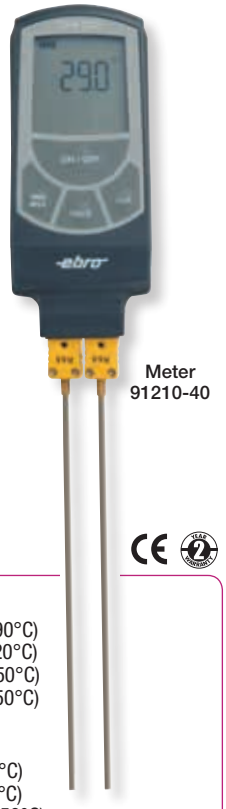
Compact J/K/T/E Thermocouple Thermometers

Stop replacing batteries

- Available in single- and dual-channel models
- Water- and shock-resistant housing for use in tough conditions
- Battery lasts up to 5 years

This advanced internal microprocessor produces an accuracy of ±0.5°F with multifunctional meters featuring Max/Min, Hold, °F/°C selectable units, adjustable sampling rate, and large LCD. Available in single- and dual-channel, both capable of accepting any type of J, K, T, and E thermocouple probes with miniconnector. Dual-channel model also features T1, T2, and delta (T1–T2). Probes are sold separately.

What's included: long-life lithium battery and NIST-traceable calibration report supplied by the manufacturer.



Meter 91210-40

Specifications

Resolution
J: 0.2°F (0.1°C) from –140 to 374°F (–100 to 190°C)
T: 0.2°F (0.1°C) from –148 to 428°F (–100 to 220°C)
K: 0.2°F (0.1°C) from –330 to 482°F (–200 to 250°C)
E: 0.2°F (0.1°C) from –140 to 302°F (–100 to 150°C)
Remaining range: 1°F (1°C)

Accuracy
J: 0.5°F (0.3°C) from –58 to 374°F (–50 to 190°C)
T: 0.5°F (0.3°C) from –58 to 428°F (–50 to 220°C)
K: 0.5°F (0.3°C) from –140 to 482°F (–100 to 250°C)
E: 0.5°F (0.3°C) from –58 to 302°F (–50 to 150°C)
Remaining range: ±0.5% of reading

Type	Range	Catalog number	Price
Single input	J: –140 to 1470°F (–100 to 800°C) T: –50 to 570°F (–50 to 300°C)	GY-91210-39	
Dual input	K: –330 to 2190°F (–200 to 1200°C) E: –140 to 1110°F (–100 to 600°C)	GY-91210-40	

Compact Waterproof RTD Thermometers

Maintain accuracy even in harsh environments

- IP67-rated case is water- and impact-resistant
- Corrosion-resistant stainless steel probe

Multifunction models offer Max/Min and Hold functions, plus a 100 Ω sensor for greater accuracy. Available with a choice of pre-installed probes.

What's included: probe, NIST-traceable calibration report supplied by manufacturer, and one 3.0 V lithium battery.

90111-15

90111-11

Probe	Range	Resolution	Accuracy	Catalog number	Price
Compact 100 Ω RTD thermometers					
Blunt tip	–58 to 572°F (–50.0 to 300°C)	0.2°F (0.1°C)	±0.5°F ±1 digit (±0.3°C ±1 digit)	GY-90111-10	
Penetration tip				GY-90111-11	
Remote sensor with penetration tip				GY-90111-12	
Multifunction compact 100 Ω RTD thermometers					
Blunt tip	–148 to 932°F (–100 to 500°C)	0.4°F (0.02°C) from –148 to 212°F (–99.98 to 99.98°C); 0.2°F (0.1°C) from 212 to 932°F (100 to 500°C)	±0.3°F (±0.5°C) from –58 to 214°F (–50 to 99.99°C); ±0.3°F (±0.2°C) for remaining range	GY-90111-13	
Penetration tip				GY-90111-14	
Remote sensor with penetration tip	–148 to 752°F (–100 to 400°C)			GY-90111-15	

Entry-Level Single- and Dual-Input Thermocouple Thermometers

Keep a hand free—easy one-handed operation

– Meet any basic temperature measurement need

TM100 Features

– Side-mounted controls for one-handed operation
– Accepts both K and J thermocouple probes
– Data Hold function freezes reading on display
– Min/Max/Avg readings with relative time stamp
– Offset key used for zero function to make relative measurements
– Readout in °F, °C, or K (Kelvin)
– Auto power off with disable feature

TM300 Additional Features

– Dual input
– Temperature differential, T1, T2, T1–T2

What's included: Type K bead wire temperature probe. Model TM100 also has one 9 V battery. Model TM300 also has a carrying pouch and three AAA batteries.

CE

Model number	TM100	TM300
Catalog number	GY-95001-25	GY-95001-35
Number of inputs	1	2
Range	Type K: –328 to 2501°F (–200 to 1372°C) Type J: –346 to 2012°F (<–210 to 1100°C)	
Resolution	0.1°/1°	
Accuracy	±0.15% of reading (1.8°F/1°C)	
Power	One 9 V battery	Three AAA batteries
Price		

GY-09376-00 **Replacement batteries,** AAA. Pack of 12
GY-09376-04 **Replacement batteries,** 9V. Pack of 4
GY-17002-10 **NIST-traceable calibration** with data for meter with probe

Data Logging 4-Channel Thermocouple and RTD Thermometer with SD Card Memory

Stress-free data transfer

– Easily transfer data to PC with 2G SD card
– Data logging capability up to 20,000 records with real-time/date stamp
– User programmable sampling rate from 1 to 3600 seconds
– Manual store and recall of up to 99 records
– Read up to four different temperatures with four channel inputs

Features include Min/Max and hold functions, temperature differential, offset adjustment, time-and-date stamp, auto power off, and low-battery indication.

What's included: type K beaded wire temperature probe, 2 GB SD card, USB cable, carrying case, and six AA batteries.

CE

Specifications

Resolution: 0.1°F (0.1°C)
Data logging: manual store/recall of up to 99 records; auto store up to 20,000 records using 2G SD card
Output: SD card and RS-232 interface
Power: six AA batteries

Range	Accuracy	Cat. no.	Price
Type J: –346 to 2012°F (–210 to 1100°C); Type K: –328 to 2501°F (–200 to 1372°C); Type T: –58 to 752°F (–50 to 400°C); Type E: –58 to 1652°F (–50 to 900°C) Type R: 32 to 3092°F (0 to 1700°C); Type S: 32 to 2732°F (0 to 1500°C) RTD (100 Ω Pt): –327 to 162°F (–200 to 850°C)	Types J, K, T, E: ±0.4% rdg (+1.8°F/+10°C) Types R, S: ±0.5% rdg (+2°F/+1°C)	GY-95001-32	

GY-37803-70 **SD card reader** with USB interface
GY-17002-10 **NIST-traceable calibration** with data for thermocouple system (meter and probe)

EasyView® Thermocouple Thermometers

Stop squinting to read data

– Large display makes reading measurements easy

Model 95001-05 is a single-input type K thermometer which features store/recall of 150 readings, Avg, relative functions, Min/Max, Hold, °F/°C selectable units, and auto power off.

Model 95001-06 is a dual-input type K thermometer which offers the same features as 95001-05; plus an offset function for relative measurement, temperature differential between two probes (T1–T2), timer, elapsed time, time of reading, min/max, backlit display, and °F/°C/K selectable units.

Model 95001-07 is a dual-input thermometer with datalogger which offers the same features as 95001-06. This meter also includes a datalogger that can store up to 8800 data points and download via bidirectional RS-232 interface.

What's included: type K thermocouple probe (one for each input). Model 95001-07 also includes two type K probes, RS-232 cable, and software.

CE

Probe	Data logger	Range	Resolution	Accuracy	Power	Catalog number	Price
Single input, type K	No	–58 to 1999°F (–50 to 1300°C)	0.1°F/C below 200°, 1°F/C above 200°	±0.3% of reading, +2°F (+1°C)	Six AAA batteries (included)	GY-95001-05	
Dual input, type K	No	–200 to 1999°F (–200 to 1360°C)	0.1°F/C below 200°, 1°F/C above 200°	±0.3% of reading, +2°F (+1°C)		GY-95001-06	
Dual input; types J, K, T, E, R, S, N	Yes	–200 to 1994°F (–200 to 1090°C)	0.1°F/C below 200°, 1°F/C above 200°	±0.05% of reading, ±1.5°F (0.75°C)		GY-95001-07	

Waterproof Thermocouple Thermometer

Store cord and probe easily

– Snap and unwind cord easily to reach up to three feet away
– Impact-resistant, waterproof design
– Use one handed or by detaching the probe for remote use

This highly accurate, type K thermocouple thermometer has a two-second response time. The meter features °F/°C selectable units, continuous sampling mode, and the ability to be field calibrated. Meter is supplied with a probe, but will accept any type K thermocouple with a miniconnector

What's included: integral type K probe with penetration tip, belt clip, and one 9 V battery.

91210-50

Probe snaps onto the back of the meter for one-handed measuring.

Specifications

Resolution: 0.1°F/°C up to 199°F (99°C); 1°F/°C for rest of range
Accuracy: ±1°F/°C from 0 to 270°F (0 to 132°C), ±3°F from 270 to 500°F (132 to 260°C), ±1% remaining range
Power: One 9V battery (included)

Type	Range	Catalog number	Price
Single input, type K	–40 to 500°F (–40 to 260°C)	GY-91210-50	

GY-09376-04 **Replacement batteries,** 9 V. Pack of 4
GY-17002-10 **NIST-traceable calibration** for thermocouple system (meter and probe)

Waterproof Thermocouple Thermometers

No need to keep recalibrating

– Optimal choice for accuracy and maximum durability in foodservice applications
– Memory stores the calibration settings

Each instrument features selectable °F/°C units, on/off button and easy twist-open watertight battery hatch. Advanced model 90025-08 additional features include a back light, user-selectable resolution, hold function that freezes the current reading, and the ability to disable the auto-off function. Model 90025-18 features temperature stabilization mode and can record up to 250 readings in memory. The AquaTuff can be used with any type K thermocouple probe with a standard miniconnector.

What's included: calibration document supplied by the manufacturer and two AAA batteries.

Specifications

Resolution: 0.1°F/C (0.1, 1°F/C; user selectable for model 90025-08)
Accuracy: ±0.5°F (±0.3°C) across entire range at ambient from 8 to 86°F (20 to 30°C)
Power: two AAA batteries (included)

Type	Range	Catalog number	Price
Single input, K	–100 to 999°F (–73 to 537°C)	GY-90025-07	
Advanced features, single input, K		GY-90025-08	
Advanced temperature stabilization, single input	–-100 to 500°F (–73 to 260°C)	GY-90025-18	

Probes

Description	Range	Catalog number	Price
Micro-needle probe	–100 to 500°F (–73 to 260°C)	GY-90025-14	
Extra-rugged needle probe	–40 to 500°F (–40 to 260°C)	GY-90025-13	
Needle probe	–40 to 500°F (–40 to 260°C)	GY-90025-16	
Weighted griddle-surface probe	500°F (260°C) max	GY-90025-09	
120° angled surface probe	–40 to 500°F (–40 to 260°C)	GY-90025-11	
Pipe clamp probe	–20 to 300°F (–29 to 149°C)	GY-90025-12	

Wait! There's More...

For probes compatible with our wide selection of thermocouple meters, see pages 954-960.

Order your Product with
NIST-Traceable Calibration
InnoCalSolutions.com
INNOCAL® INNOVATIVE CALIBRATION SOLUTIONS

Foodservice Thermocouple Thermometer

Ensure food safety with antimicrobial protection

- IP67-rated case is water- and dustproof
- NSF-approved with BioCote® antimicrobial protection

Designed to accept any type K thermocouple probe with miniature connection. This thermometer produces a high degree of accuracy with a rapid response time. The meter features °F/°C selectable units, data hold, auto-off function, clock, multifunction countdown timer, and built-in protective boot.

The thermometer has an IP67-rated case with BioCote antimicrobial protection—ideal for use in the food industry and is an accepted part of HACCP standards. BioCote is an antimicrobial agent that is impregnated into the case during molding, effectively inhibiting the growth of micro-organisms.

What's included: protective boot, certificate of conformity, and two AA batteries.

Specifications

Resolution
Below 100°F (100°C): 0.1°
Above 100°F (100°C): 1°

Accuracy: ±0.1% of reading, ±0.4°F/±0.2°C

Power: two AA batteries (included)

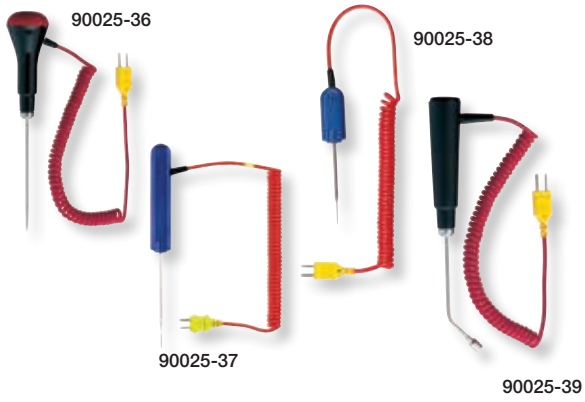
Type	Range	Catalog number	Price
Single input, K	–328 to 1112°F (–200 to 600°C)	GY-90025-34	

GY-90025-41 Wall bracket for 90025-34
GY-09376-01 Replacement batteries, AA. Pack of 4
GY-17002-10 NIST-traceable calibration for thermocouple system (meter and probe)

Foodservice Thermocouple Probes

Get quick readings to ensure safety

- Most probes have a response time of under 0.5 seconds
- Include a 3-foot coil cord



Description	Range	Catalog number	Price
Food-penetration thermocouple type K probe with 1.6-mm penetration tip	–58 to 482°F (–50 to 250°C)	GY-90025-36	
Frozen food penetration thermocouple type K probe with 1.6-mm penetration tip	–58 to 482°F (–50 to 250°C)	GY-90025-37	
Food-penetration thermocouple type K probe with 1.1-mm penetration tip	–58 to 482°F (–50 to 250°C)	GY-90025-38	
Grill surface food thermocouple type K probe with 45° crank	–58 to 482°F (–50 to 250°C)	GY-90025-39	

GY-17001-10 NIST-traceable calibration for thermocouple probe; with test data

Waterproof Thermocouple Thermometers

Ensure safer handling

- BioCote® antimicrobial protection reduces cross-contamination
- IP67-rated case is water- and dustproof
- Interactive menu allows for easy selection of all features

Thermometers have a high degree of accuracy, rapid response time, and exceptional battery life. All models feature °F/°C selectable units, data Hold, and auto-off function.

Model 90025-25 accepts type K and T thermocouples, and includes a clock, countdown timer, and multiple alarm functions. This meter also features a long-life 10-year battery (nonreplaceable).

Model 90025-30 has dual inputs that accept eight thermocouple types, displays in °F, °C and °K and includes a min/max function and temperature differential for maximum versatility.

What's included: certificate of conformity and batteries.

Specifications

Resolution
Below 1832°F (1000°C): 0.1°
Above 1832°F (1000°C): 1°

Accuracy: ±0.1% of reading, ±0.4°F /±0.2°C

Power
Model 900025-30: two AA batteries (included)
Model 90025-25: one long-life battery (included)

Type	Range	Catalog number	Price
Single input; K, T	K: -328 to 2501°F (–200 to 1372°C) T: -328 to 752°F (–200 to 400°C)	GY-90025-25	
Dual input; B, E, J, K, T, R, S, N	B: 392 to 3272°F (200 to 1800°C) E: –328 to 1032°F (–200 to 1000°C) J: –328 to 2192°F (–200 to 1200°C) K: –328 to 2502°F (–200 to 1372°C) T: –328 to 752°F (–200 to 400°C) R: –58 to 3212°F (–50 to 1767°C) S: –58 to 3212°F (–50 to 1767°C) N: –328 to 2372°F (–200 to 1300°C)	GY-90025-30	

GY-90025-40 Protective rubber boot
GY-90025-45 Carrying case
GY-09376-01 Replacement batteries, AA. Pack of 4
GY-17002-10 NIST-traceable calibration for thermocouple system (meter and probe)

Multichannel RTD and Thermocouple Thermometer with Wireless Capability

Measure up to five temperatures simultaneously

- Use both RTD and thermocouple probes
- When fully equipped, five temperature probes can be registered: three wireless probes and two attachable probes
- Keep hands free with embedded magnets on back

These meters offer such functions as timed and multipoint mean calculation, differential temperature measurement, Min/Max value, Hold, and audible alarm settings.

Model 86460-16 also features three user-selectable profiles—standard, route, and longterm—each tailored to suit typical applications. This logging model stores up to 10,000 readings. PC software and cable included.

Use of wireless probes requires wireless upgrade kit and type K thermocouple adapter head.

Specifications

Probe	Range†	Resolution	Accuracy
RTD	–328 to 1472°F (–200 to 800°C)	0.05°F (0.05°C)	±0.2% of rdg from –148 to 390°F (–100 to 199°C), ±0.4°F (±0.2°C) for remaining range
Type K thermocouple	–328 to 2498°F (–200 to 1370°C)	0.1°F (0.1°C)	±0.3°F (±1.5°C) from –140 to 140°F (–60 to 60°C), ±0.5% of mv for remaining range
Type T thermocouple	–58 to 750°F (–50 to 399°C)		

†Range depends on the probe being used.

Meters

Description	Power	Catalog number	Price
Multichannel temperature meter with wireless capability	Three AA batteries (included)	GY-86460-15	
Multichannel temperature meter with data logging and wireless capabilities		GY-86460-16	

Probes

Type	Range	Catalog number	Price
Waterproof penetration probe (RTD)	–58 to 750°F (–50 to 399°C)	GY-86460-10	
Laboratory glass-coated/ corrosion-resistant probe (RTD)	–58 to 750°F (–50 to 399°C)	GY-86460-11	
Waterproof penetration probe (type K thermocouple)	–76 to 750°F (–60 to 400°C)	GY-37486-08	
Wireless penetration probe (type K thermocouple)	–76 to 750°F (–60 to 400°C)	GY-37486-04	

Accessories

GY-37486-02 **Wireless upgrade kit** includes one T/C wireless handle and one wireless module
GY-37486-12 **NIST-traceable calibration** with data for thermocouple system (meter and probe)
GY-17002-04 **NIST-traceable calibration** with data for RTD system (meter and probe)

Multi-Input Thermocouple Thermometers

Read up to four values simultaneously

- Store up to 16,000 data points with data logging models
- Easily transfer data to PC with RS-232 port
- Know your temperature differential—automatically
- Calculated on 4-input models

Each meter features Min/Max, Hold, °F/°C selectable units, zero point adjustment, tripod screw, relative temperature (model 94461-30), and auto power-off to save on battery power.

What's included: two type K beaded-wire thermocouples, foam-lined case, and one 9 V battery. Model 94461-35 also includes a RS-232 cable and software.

Specifications

Resolution: 0.1°F (0.1°C)
Accuracy: ±2°F (±1°C) full-scale, ±0.5% of reading
Output: bidirectional RS-232
Power: one 9 V battery (included) or optional AC adapter

Type	Data logger	Range	Catalog number	Price
Four inputs, K	No	–328 to 2498°F (–200 to 1370°C)	GY-94461-30	
Four inputs, K	Yes		GY-94461-35	

Accessories

GY-08516-55 **General-purpose thermocouple** type K probe; 5" (12.7 cm) L
GY-94461-25 **Water-resistant pouch**
GY-94461-61 **AC adapter,** 115 VAC
GY-01618-51 **Benchtop tripod**
GY-01618-52 **Field tripod**
GY-94461-60 **RS-232 cable** for 94461-30
GY-09376-04 **Replacement batteries,** 9 V. Pack of 4
GY-17002-10 **NIST-traceable calibration** for thermocouple system (meter and probe)