

Digi-Sense® Temperature Data Logger

Save money—reprogram and reuse for multiple tasks

NEW

- Compact, lightweight, and waterproof (IP66 rated)
- Download data and prepare reports with thorough data analysis; requires software and cradle
- Comes with NIST-traceable calibration report for assured accuracy, right out of the box

Measurements outside of the user-determined alarm conditions for too long trigger “QUARANTINE” on the display. Optional sleeves provide a quick reference of the logger settings including minimum, maximum, quarantine, logging interval and duration, start and stop date and time, and special instructions.

Order individual units or a complete kit (five data loggers, data download and analysis software, and one cradle with USB cable). Additional loggers may be added separately.

What's included: battery and individually serialized NIST-traceable calibration certificate.



Accessories

GY-18005-03 Cradle and USB cable (required) for downloading data and uploading settings

GY-18005-04 Software for data analysis and setting parameters

GY-18005-02 Data logger sleeves. Pack of 100

GY-17102-20 NIST-traceable recalibration for temperature data logger



Description	Temperature data logger	Temperature data logger kit
Catalog number	GY-18005-00	GY-18005-01
Range	-31 to 122°F (-35 to 50°C)	
Resolution	0.1° F/°C	
Accuracy	±0.4°F (±0.2°C) from 32 to 50°F (0 to 10°C); ±2°F (±1°C) otherwise	
Memory	7680 temperature readings with time-and-date stamp	
Sampling rate	Adjustable from every 2 seconds to every 24 hours	
Power	Standard battery: lithium CR2016	
Dimensions (L x W x H)	2 5/16" x 1 3/8" x 3/8" (6.5 x 3.4 x 0.9 cm)	
Price		

Multifunction Data Loggers

Customize sampling rate to your needs

- Over/under alarm threshold settings provide added versatility
- PC software features stop on full, record continuously, and memory rollover modes
- Compact design

All loggers feature custom user identification, visual alarm indication, over/under alarm threshold settings, user-selectable recording start, data rollover, unique logger ID, zoom capability, and user-selectable sampling rates.

Conduct real-time data monitoring with required Windows®-based PC software and interface (order separately below) or export data to text or Excel® for further analysis. Software is compatible with Windows 95 and above, and is required to program and run all data loggers. Data loggers with external channels include necessary sensor. All include CD-ROM, LINT interface, and 6-ft (1.8-m) cable.



Specifications

Memory: up to 21,500 data points
Sampling rate: 1 second to 18 hours
Power: one 9 V alkaline or lithium battery (not included)
Dimensions (W x H x D): 3" x 2 1/2" x 1" (7.6 x 6.4 x 2.5 cm)

Parameters	No. of channels	Range	Resolution	Accuracy	Catalog number	Price
Temperature	One internal	32 to 140°F (0 to 60°C) with alkaline battery; -40 to 150°F (-40 to 65°C) with lithium battery,	0.1°F (0.05°C)	±1.0°F (0.5°C)	GY-23037-50	
	One external	-40 to 150°F (-40 to 65°C)				
Temperature	Two independent external	-50 to 300°F (-46 to 150°C)	0.1°F (0.05°C)	±2°F (1°C)	GY-23037-52	
Temperature	One internal	32 to 140°F (0 to 60°C) with alkaline battery; -40 to 150°F (-40 to 65°C) with lithium battery	0.1°F (0.05°C)	1.0°F (0.5°C)	GY-23037-54	
	Thermocouple type J, K, E, T, R, S	One external				
Temperature	One internal	32 to 140°F (0 to 60°C) with alkaline battery; -40 to 150°F (-40 to 65°C) with lithium battery	0.1°F (0.05°C)	±2°F (1°C)	GY-23037-56	
Humidity		0 to 99.9% RH, noncondensing				
Temperature	Two external	-40 to 150°F (-40 to 65°C)	0.1°F (0.05°C)	±1°F (0.5°C)	GY-23037-58	
Pressure		0 to 500 psi				

GY-23037-60 Required PC software and interface with 6-ft (1.8-m) cable

GY-23037-68 USB interface, USB to serial port

GY-23037-62 Replacement temperature sensor for 23037-50 and -58, 15-ft (4.6-m) cable

GY-23037-64 Replacement type K thermocouple probe for 23037-52

GY-23037-66 Lithium battery

GY-09376-04 Batteries, 9 V. Pack of 4

High-Temperature Data Loggers

Stand up to harsh environments such as autoclaves

- Rugged 316 SS construction with accuracy of $\pm 0.18^{\circ}\text{F}$ (0.1°C) over the entire operating range
- Fully submersible, IP68 rated
- NIST-traceable

This rugged stainless steel device is fully submersible and withstands operating temperatures up to 284°F (140°C). The $100\ \Omega$ Pt RTD sensor measures temperatures up to 500° (260°C), making the logger ideal for use in conveyor ovens, well monitoring, environmental studies, autoclave validation, and more.

The required IFC400 docking station and associated software makes starting, stopping, and operating the logger quick and simple. Data is presented in graphical, tabular, and summary format and can be viewed in $^{\circ}\text{C}$, $^{\circ}\text{F}$, K, or $^{\circ}\text{R}$. You can also automatically export the data to Excel[®] for further calculations and analysis. One docking station can be used with multiple data loggers.



Specifications

Range: -328 to 500°F (-200 to 260°C)	Memory: 32,700 readings	Dimensions (body): $2\frac{3}{4}''\text{H} \times 1''$ dia (67×25 mm)
Resolution: 0.02°F (0.01°C)	Start modes: Immediate or delay start up to 18 months	Power: 3.6 V high-temperature lithium battery, user replaceable / 1 year typical
Accuracy: $\pm 0.18^{\circ}\text{F}$ ($\pm 0.1^{\circ}\text{C}$) from -4 to 284°F (-20 to 140°C)		

Model number	Description	Catalog number	Price
HITEMP140-1	High-temperature data logger with rigid 1" (25 mm) long probe	GY-23000-76	
HITEMP140	High-temperature data logger with rigid 2" (51 mm) long probe	GY-23000-44	
HITEMP140-5.25	High-temperature data logger with rigid 5 1/4" (133 mm) long probe	GY-23000-77	
HITEMP140-7	High-temperature data logger with rigid 7" (178 mm) long probe	GY-23000-78	
HITEMP140-PT	High-temperature data logger with flexible 24" (610 mm) long probe	GY-23000-79	
HITEMP140-TSK	Kit contains HiTemp140 data logger with rigid 2" (51 mm) long probe and a PTFE thermal shield	GY-23000-81	
IFC400	Docking station with USB cable and software. Required for setup and operation of data loggers.	GY-23000-98	

[GY-23000-99](#) Replacement battery

[GY-17002-20](#) NIST-traceable recalibration with data for data loggers

Barometric Pressure/Humidity/ Temperature Data Logger

Get more data instantly

- Read three measurements simultaneously—relative humidity, temperature, and barometric pressure
- Easily transfer data to PC via SD card for further analysis
- Set intervals to your requirements—can collect data from every 5 seconds to every 10 minutes
- Know if samples are in jeopardy with programmable alarms
- Place anywhere you need readings



Specifications

Memory: 2M data using 2G SD memory card	Power: six AAA batteries (included)
Sampling rate: 5, 10, 30, 60, 120, 300, 600 seconds or automatic	Dimensions (W x H x D): $3\frac{1}{8} \times 5\frac{1}{4} \times 1\frac{1}{4}''$ ($8 \times 13.2 \times 3.2$ cm)

Parameter	Range	Resolution	Accuracy	Catalog number	Price
Pressure	10 to 1100 hPa (0.29 to 3248" Hg)	0.1 hPa (0.01" Hg)	± 3 hPa (0.09" Hg)	GY-70001-33	
Temperature	32 to 122°F (0 to 50°C)	0.1°F (0.1°C)	$\pm 1.8^{\circ}\text{F}$ ($\pm 0.8^{\circ}\text{C}$)		
Humidity	10 to 90% RH	0.1% RH	$\pm 4\%$ RH		

[GY-09376-00](#) Replacement batteries, AAA. Pack of 12

[GY-17102-20](#) NIST-traceable calibration for temperature data logger



Compact USB Data Loggers

Download directly to PC via built-in USB

- Programmable alarms alert to problems
- Easily manipulate and analyze data with included software
- Easy setup: plug into USB port, choose sampling rate and alarm settings, set start time, remove and place for data logging

A. Temperature

- Store up to 32,000 readings
- Temperature ranges from –40 to 257°F (–40 to 175°C)
- Model 23039-66 features stainless steel enclosure for hostile environments



B. Temperature with External Sensor

- Store more than 32,000 readings
- Models 23039-60 and –64 include a type K thermocouple for readings from 32 to 752°F (0 to 400°C)
- Model 23039-80 includes a thermistor for more accurate measurements



C. Temperature/Humidity

- Get temperature readings from 31 to 176°F (–35 to 80°C) and 0 to 100% RH
- Store more than 16,000 readings
- Also calculates dew point



D. Real-Time Temperature/Humidity

- Real-time readings of ambient temperature, humidity, and calculated dew point on PC monitor
- Must remain connected to USB
- Alerts via text or email if parameters fall outside limits



E. Process

- Store over 32,000 data points
- Easily connect to external sensors via screw terminal



F. Carbon Monoxide

- Be alerted to high CO levels with audible and visual LED alarm
- Store more than 32,000 readings



What's included:
configuration software and battery.



23029-50,
-52, -66

Portable Viewer

- View data on color touchscreen display
- Internal memory stores data for up to 500 loggers
- Get more control—reprogram and start data loggers remotely



[GY-18000-13](#) Portable viewer

[GY-18000-14](#) Protective sleeve for portable viewer

No. of channels	Range	Resolution	Accuracy	Readings	Display	Battery life (typical)	Catalog number	Price
A. Temperature data loggers								
1	14 to 122°F (–10 to 50°C)	2°F (1°C)	±2°F (±1°C)	4080	No	1 month	GY-23039-51	
1	–31 to 176°F (–35 to 80°C)	1°F (0.5°C)	±2°F (±1°C)	32,510	No	1 year	GY-23039-50	
					Yes		GY-23039-53	
1	–40 to 257°F (–40 to 125°C)	0.2°F (0.1°C)	±0.4°F (±0.2°C)	32,510	No	3 years	GY-23039-66	
B. Temperature data loggers, include external sensor (thermocouple models include a type K thermocouple)								
1	Type K: –328 to 2462°F (–200 to 1350°C) Type J: –328 to 2174°F (–200 to 1190°C) Type T: –328 to 734°F (–200 to 390°C)	1°F (0.5°C)	±2°F (±1°C)	32,510	No	6 months	GY-23039-60	
					Yes		GY-23039-64	
1	Thermistor: –40 to 257°F (–40 to 125°C)	1°F (0.5°C)	±2°F (±1°C)	32,510	Yes	6 months	GY-23039-80	
C. Temperature/humidity data loggers								
2	–31 to 176°F (–35 to 80°C) 0 to 100% RH	1°F (0.5°C) 0.5% RH	±1°F (±0.5°C) ±3.0% RH	16,382 16,379	No Yes	1 year	GY-23039-52 GY-23039-62	
2	–31 to 176°F (–35 to 80°C) 0 to 100% RH	1°F (0.5°C) 0.5% RH	±0.6°F (±0.3°C) ±2.0% RH	16,382 16,379	No Yes	1 year	GY-23039-67 GY-23039-65	
D. Real-time temperature/humidity data logger								
2	–4 to 158°F (–20 to 70°C) 0 to 100% RH	0.1°F (0.1°C) 1% RH	±3°F (±1.5°C) ±4.5% RH	7 days worth [†]	No	—	GY-23039-59	
E. Process data loggers								
1	0 to 30 VDC	50 mV	±1% of reading	32,510	No	1 year	GY-23039-54	
1	4 to 20 mA	0.05 mV	±1% of reading	32,510	No	1 year	GY-23039-56	
F. Carbon monoxide data loggers[‡]								
1	0 to 1000 ppm	0.5 ppm CO	±6 ppm	32,510	No	3 months	GY-23039-58	
1	0 to 300 ppm	0.5 ppm CO	±4 ppm	32,510	No	3 months	GY-23039-68	

[†]Data file is overwritten at the beginning of each new logging session. Software provides the option to save the data permanently to the hard drive.
[‡]Not a life-saving device.

Data Loggers

Temperature and Temperature/Humidity Data Loggers

No changing batteries for up to three years

- Choose between one- or three-year battery life
- Records up to 64,000 samples of temperature and relative humidity
- Program how you want—customizable alarms and display
- Simply download data via USB and analyze with included software



Easily configure units using the included Track-It software. Simply plug the logger into an open USB port on your PC and the software automatically identifies the logger. Configure the unit to start and stop recording at a predetermined time and date or only when an alarm condition is sensed. The sample storage rate can be set from 1 sample every 2 seconds to 1 sample every 24 hours. A splashproof cover protects the logger when in use.

Specifications

Memory: 32,000 or 64,000 data points (based on configuration)
Sampling rate: one every 2 seconds to one every 24 hours, user configurable
Display: user-programmable LCD
Power:
 Standard battery: lithium CR2032; 1-yr life at a 1-minute sampling rate
 Long-life battery: EF651625; 3-yr life at a 1-minute sampling rate
Dimensions (L x W x H):
 3 21/32" x 3/32" x 3/4" (9.3 x 2.9 x 1.9 cm)

Parameters	Range	Resolution	Accuracy	Standard battery		Long-life battery	
				Cat. no.	Price	Cat. no.	Price
Temperature	-4 to 185°F (-20 to 85°C)	±0.8°F (±0.05°C)	±1°C from 0 to 50°C, ±2°C from -20 to 85°C	GY-30003-00		GY-30003-01	
Temperature	-4 to 185°F (-20 to 85°C)	±0.8°F (±0.05°C)	±1°C from 0 to 50°C, ±2°C from -20 to 85°C	GY-30003-02		GY-30003-03	
Humidity	0 to 100% RH	0.5% RH	±3% from 20 to 80% RH				

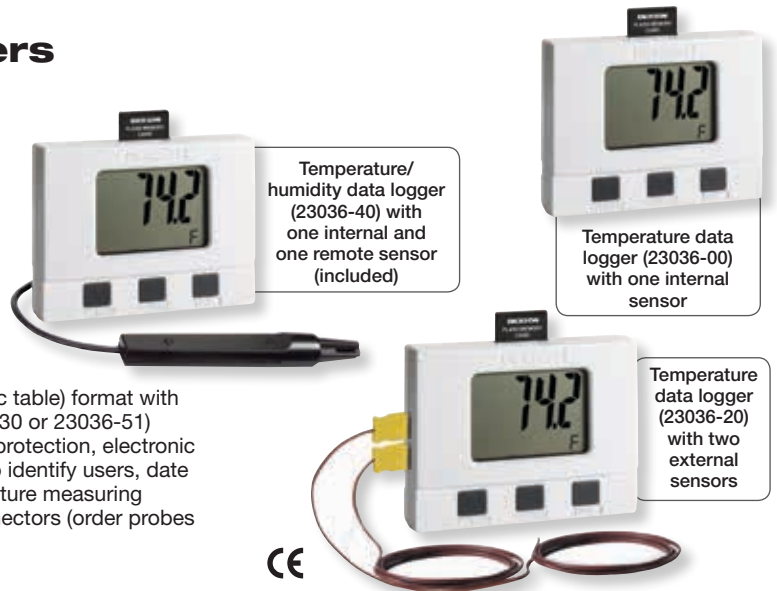
- [GY-30003-04](#) USB 2.0 extension interface cable, 3 ft (0.9 m)
- [GY-17102-20](#) NIST-traceable calibration with data for temperature data logger
- [GY-17030-24](#) NIST-traceable calibration with data for temperature/humidity data logger

Large-Display Data Loggers

Easily read display up to 25 feet away!

- Record up to 32,000 data points
- Features high/low alarms, min/max readings, delayed start times, and °F/°C selection
- Multiple ways to download data—USB, 9-pin serial port, or portable memory card

View and zoom logged data in a graphical or tabular (numeric table) format with optional software. Optional 21 CFR Part 11 software (23033-30 or 23036-51) meets pharmaceutical requirements and features password protection, electronic signatures, encrypted data in secured files, auditable trails to identify users, date and times, and actions taken. Loggers with external temperature measuring capability accept type K thermocouple probes with miniconnectors (order probes separately).



Specifications

Memory: 32,000 data points
Power: four AA batteries (included), or optional 115 VAC adapter
Sampling rate: 1 second to 24 hours
Dimensions (W x H x D): 4" x 3" x 1 1/2" (10.2 x 7.6 x 3.8 cm)

Parameters	No. of channels	Range	Resolution	Accuracy	Display	Catalog number	Price
Temperature	One internal	-4 to 158°F (-20 to 70°C)	0.1°F (°C)	±1.8°F (1°C)	4-digit LCD	GY-23036-00	
	One internal, one external					GY-23036-10	
	One internal, two external					GY-23036-20	
Temperature Humidity	One internal	0 to 95% RH	±1% RH	±2% RH		GY-23036-30	
Temperature Humidity	One external	-4 to 158°F (-20 to 70°C)	0.1°	±1.8°F (1°C)		GY-23036-40	

Accessories

- [GY-80009-50](#) Software and 9-pin serial cable for Windows® 95/98/2000/NT
- [GY-23033-30](#) Software and 9-pin serial cable for Windows® 95/98/2000/NT, 21 CFR Part 11 compliant
- [GY-23036-50](#) Software and USB cable for Windows® 95/98/2000/NT
- [GY-23036-51](#) Software and USB cable for Windows® 95/98/2000/NT, 21 CFR Part 11-compliant
- [GY-23036-53](#) Replacement FLASH memory card
- [GY-23036-52](#) Card reader kit
- [GY-23032-70](#) AC adapter, 115 VAC

Data View Temperature/Humidity Data Logger with Graphic Display

Get accurate, real-time readings

- Ideal for any location, accuracy of $\pm 2\%$ RH
- Easily monitor and record temperature, humidity, and dew point
- Monitor trends at a glance with graphic display
- Configure to your needs

Included software allows you to set the sampling interval (from 1 second to 18 hours, in 1-second increments), set logger ID, disable channels, select US or metric scales, adjust recording mode, and conduct single-point offset calibration. Calibration is password protected providing additional data security. Unit is USB compatible allowing you to easily export data to text or Excel® files.

What's included: software, 6-ft (1.8-m) USB cable, and three AA batteries.



Temperature / Humidity / Pressure

Specifications

Internal memory storage: 43,344 complete reading sets
Dimensions (W x H x D): 4" x 3" x 1½" (10.2 x 7.6 x 3.8 cm)
Sampling rates: 1 second to 18 hours
Power: three AA batteries (included)
Display: backlit graphic LCD

Parameters	Range	Resolution	Accuracy	Catalog number	Price
Temperature	15 to 150°F (-10 to 65°C)	0.01°F (0.01°C)	$\pm 1^\circ\text{F}$ (0.5°C)	GY-23039-10	
Humidity	0 to 99% RH, noncondensing	0.01% RH	$\pm 2\%$, from 10 to 90% RH		

[GY-09376-01](#) Replacement batteries, AA. Pack of 4

INNOCAL®
 INNOVATIVE CALIBRATION SOLUTIONS

Calibrate to ensure accuracy

[GY-17002-20](#) NIST-traceable calibration for temperature data logger
[GY-17030-24](#) NIST-traceable calibration for temperature/humidity data logger

Temperature/Humidity/Pressure Data Loggers

Use even in tight spaces

- All data loggers feature a time/date stamp

Features include programmable start times, calibration and real time monitoring. (order required data retrieval software separately below).



Standard data logger
70001-01

Specifications

Memory
 Standard: 32,768 readings/channel
 Industrial: 16,768 readings/channel

Sampling rate: 2 seconds to 24 hours
Power: 3.6 V lithium cell battery (included)

Dimensions
 Standard: 2¼" L X 1½" W X ½" D (5.7 x 3.8 x 1.3 cm)
 Industrial: 4" H x ¾" dia (10.2 x 1.9 cm)

Parameters	No. of channels	Range	Resolution	Accuracy	Catalog number	Price
Standard						
Temperature	One internal	-40 to 176°F (-40 to 80°C)	0.18°F (0.1°C)	$\pm 0.9^\circ\text{F}$ ($\pm 0.5^\circ\text{C}$)	GY-70001-01	
Temperature (thermocouple type J, K, T, E, R, S, B, N)	One internal, one external	Internal sensor: -40 to 176°F (-40 to 80°C) Thermocouple: -436 to 3290°F (-260 to 1810°C)†	0.18°F (0.1°C)	Internal sensor: $\pm 1^\circ\text{F}$ ($\pm 0.5^\circ\text{C}$) Thermocouple: ± 2 to 5°F (± 1 to 2.5°C)†	GY-70001-03	
Temperature	One internal	-40 to 176°F (-40 to 80°C) 2 to 100% RH	0.18°F (0.1°C)	$\pm 1^\circ\text{F}$ ($\pm 0.5^\circ\text{C}$)	GY-70001-02	
Humidity			0.5% RH	$\pm 0.5\%$ RH		
Industrial						
Temperature	One internal	-40 to 176°F (-40 to 80°C)	0.18°F (0.1°C)	$\pm 1^\circ\text{F}$ ($\pm 0.5^\circ\text{C}$)	GY-18003-20	
Temperature	One internal	-40 to 176°F (-40 to 80°C) 2 to 100% RH	0.18°F (0.1°C)	$\pm 1^\circ\text{F}$ ($\pm 0.5^\circ\text{C}$)	GY-18003-42	
Humidity			0.5% RH	$\pm 0.5\%$ RH		
Temperature	One internal	-40 to 176°F (-40 to 80°C)	0.18°F (0.1°C)	$\pm 1^\circ\text{F}$ ($\pm 0.5^\circ\text{C}$)	GY-18003-33	
Pressure			0 to 30 psia	0.002 psia		

†For external hook-up, use thermocouple wire or a thermocouple probe with stripped ends—or call us for a custom-made probe. Range and accuracy depend on the thermocouple used.

[GY-18002-17](#) Required software and cable

[GY-08517-90](#) Flexible insulated wire probe for 70001-03

[GY-17002-20](#) NIST-traceable recalibration with data for temperature data logger

[GY-17030-24](#) NIST-traceable recalibration with data for temperature/humidity data logger

D

Data Loggers

Temperature / Humidity

Temperature/Humidity Data Loggers with PC Interface

Compact and easy to use

- Multiple data loggers (26842-91 and 18002-03) can be programmed and data downloaded from a single docking station
- Logs data for days, weeks, or months—up to one year of battery life
- Three start methods: scheduled, immediate or magnetic
- Real-time clock stores date and time with data

What's included: Windows®-compatible analysis software and 3.6 V lithium batteries.
Kits include: one data logger and docking station.



Data logger shown on docking station

Description		Temp/RH data logger kit with PC interface	Additional temp/RH data logger for kit 26842-90	Temp data logger kit with PC interface	Additional temp data logger for kit 18002-04
Catalog number		GY-26842-90	GY-26842-91	GY-18002-04	GY-18002-03
Temperature	Range	-40 to 185°F (-40 to 85°C)			
	Resolution	0.1°F/0.1°C			
	Accuracy	±1.2°F (0.6°C) from -0.4 to 122°F (-20 to 50°C), ±2.4°F (1.2 °C) all other ranges			
Humidity	Range	0 to 100%		—	
	Resolution	0.1%		—	
	Accuracy	±3%		—	
Memory		16,000 data points		8000 data points	
Sampling rate		1 sec to 2 hours			
Power		3.6 V lithium battery			
Price					

Accessories

[GY-20007-24](#) Replacement lithium batteries, 3.6 V. Pack of 2

Wireless Temperature and Humidity Data Loggers with Optional Cloud Storage

Don't ever lose sight of your readings

- Communicate with host PC or EasyLog Cloud using any WiFi router
- Get real-time data anywhere using free, downloadable EasyLog software
- Stores sensor data in memory if temporarily disconnected from WiFi

NEW



These data logging sensors wirelessly stream environmental data at regular intervals to a host PC. Sensors are 802.11b compliant and support security protocols WEP, WPA/WPA2-PSK. Data loggers are IP55-rated and include rechargeable batteries.

What's included: micro USB cable, wall-mounting bracket, and rechargeable internal lithium polymer battery. Models 23039-02, 18000-11, and 18000-12 include an external probe.



Description		Temperature data logger with internal sensor	Temperature data logger with thermistor probe	Temperature data logger with thermocouple probe	High-accuracy temperature data logger with internal sensor	High-accuracy temperature data logger with thermistor probe	Temperature/RH data logger	High-accuracy temperature/RH data logger
Catalog number		GY-23039-03	GY-23039-02	GY-18000-12	GY-18000-08	GY-18000-11	GY-23039-01	GY-18000-09
Temperature	Range	-4 to 140°F (-20 to 60°C)	-40 to 257°F (-40 to 125°C)	-454 to 2372°F (-270 to 1300°C), probe dependent	-4 to 140°F (-20 to 60°C)	-40 to 257°F (-40 to 125°C)	-4 to 140°F (-20 to 60°C)	
	Resolution	0.1°C	0.1°C	0.1°C from -99.9 to 999.9°C, 1.0°C outside -99.9 to 999.9°C	0.01°C	0.01°C	0.5°C	
	Accuracy	±0.5°C from -10 to 50°C, ±0.7°C outside -10 to 50°C	±0.6°C from -10 to 70°C, ±1.0°C outside -10 to 70°C	±1.5°C	±0.1°C from -10 to 60°C, ±0.15 outside -10 to 60°C	±0.1°C from -10 to 70°C, ±0.3°C outside -10 to 70°C	±0.3°C from 5 to 60°C, ±0.8°C below 5°C	±0.2°C from 5 to 60°C, ±0.8°C outside 5 to 60°C
Humidity	Range	—	—	—	—	—	0 to 100% RH	
	Resolution	—	—	—	—	—	1.0% RH	
	Accuracy	—	—	—	—	—	±2.5% from 20 to 80%, ±5.0% outside 20 to 80%	±2.5% from 10 to 90%, ±4.0% outside 10 to 90%
Logging rate		10 sec to 12 hours						
Power		Rechargeable lithium battery						
Price								