



Track-It™ Extreme

Temperature Data Loggers

Features:

- Up to 30,000 samples per record
- Alarm setpoints allow graphical visualization of excursions
- Compact size allows for easy placement in any application
- NIST 7-Point Certificate included
- Temperature range: -58 to 302 °F / -50 to 150 °C
- Extended range for probe tip: -70 to 300 °C
- 0.1 °C accuracy and excellent repeatability
- Accurate internal clock (1 minute/year)
- MKT calculation over an entire data file or selected time intervals
- Flexible and fixed sensors
- Simple setup and deployment
- RTD technology provides superior accuracy over a wide temperature range



3 Probe Styles: Smooth, Threaded, and Bendable



The Track-It Extreme Temperature Data Loggers are battery-powered stand-alone data loggers that record up to 30,000 temperature data samples. The units are easily configured using the included Track-It™ Software. Plug the logger into the Extreme Logger Reader, which connects via a standard USB cable to any open USB port on your PC. The Track-It Software automatically identifies the logger. The Logger communicates via the Extreme Logger Reader without opening the logger, so the long-term integrity of the housing is ensured. The Track-It Extreme Temperature Logger housing is made of 316L stainless steel and meets IP68 rating standards. Set the unit up to start or stop recording immediately, at a predetermined time and date, or only at specific temperature values. The sample storage rate can be set from 1 sample every 2 seconds up to 1 sample every 24 hours. The onboard data storage is nonvolatile, so data will not be lost in the event of a depleted battery.



Track-It™ Extreme Temperature Data Logger



Typical Uses:

- Medical Device Sterilization
- Steam Heat Sterilization
- Autoclave Sterilization
- Tunnels
- Ovens/Chambers
- Retorts
- Refrigerators/Freezers
- Storage Areas
- Incubators
- Laboratories
- Pharmaceutical
- HAACP Implementation
- Thermal Processing
- Dishwashers
- Sterilization
- Pasteurization
- Food and Beverages
- Validation
- Laboratories
- Pharmaceutical Processing
- Food Processing
- Environmental Monitoring
- Depyrogenation
- Uniformity Mapping



Applications:

Sterilization

Sterilizers require great accuracy, stability, and repeatability of temperature measurement. Track-It Extreme Loggers are calibrated using a thorough and exhaustive routine to give phenomenal results in these critical areas. Trust your data to be of the highest quality and reliability in all applications, such as sterilizing different products. Fully validate the sterilizer's uniform load temperatures with all varieties of shapes and types of insertion and removal designs.



Cold Storage Validation

Quickly locate and remove portable self-contained data loggers rather than complicated wiring using thermocouples for validation and long-term monitoring of cold chambers, storage rooms refrigerators. Save time, money, and hassles with Track-It Extreme Temperature Loggers. Save costly inventory from poorly monitored temperatures in refrigerators, freezers, cold storage rooms and containers.



Ovens

Oven temperature mapping, validation, uniformity test, and continuous measurement and recording are made simple and reliable by Track-It Extreme Temperature Loggers. Use a dual-channel logger to record oven and product temperatures. Record precise temperatures for ideal results in heating and drying applications for research, clinical, industrial, or manufacturing needs.



Autoclaves

Track-It Extreme Temperature Loggers are the perfect solution for your autoclave validation and thermal mapping requirements. Track-It Extreme Temperature Loggers are ruggedized to withstand harsh environments with an IP68 rating. Use single and dual-channel versions for economic uniformity and accurate product temperature records.



Track-It™ Extreme Temperature Data Logger



Track-It Extreme Logger Reader

PN: 5396-9930 (sold separately from loggers)

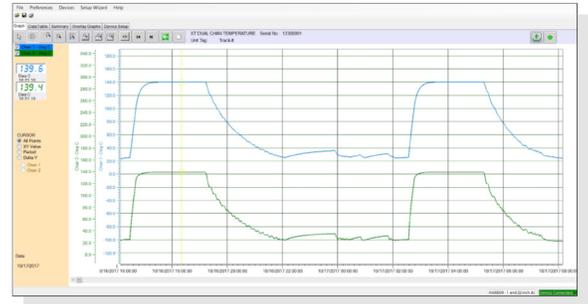


The Track-It Extreme Logger Reader is used to configure or read data from the logger. It connects to a PC via a USB cable and is powered via a USB plug. Included is a 3 ft. USB cable and Spanner Wrench for changing the Extreme's battery.



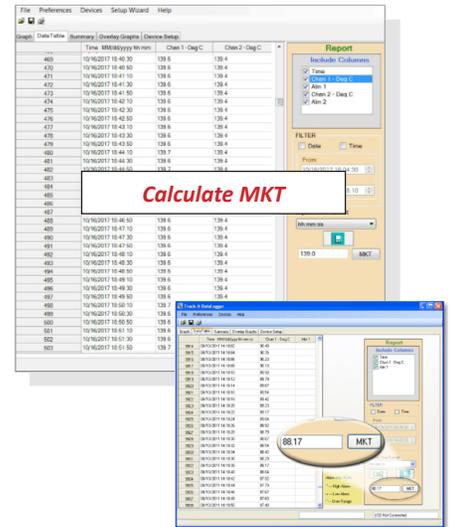
Track-It Software

Track-It Software is a powerful Windows-based software package that is included with every Track-It Data Logger. It allows for easy setup, retrieval, interpretation, and export of the recorded data. Connect your Track-It data logger to an open USB port and begin communicating immediately. Point and click to select your sample interval, alarm set points, engineering units and recording triggers. Print a graph and use the many intuitive tools to analyze and manipulate the graph. Panel meters provide digital values. Period, XY Values, and Delta measurements are easily determined using the cursor functions.



View Numerical Data:

View a numerical data table or graphical representation of data readings relative to time. Use the graph cursor tools such as panel meter display, XY value, period, or peak to peak. Zoom and stretch to examine and analyze the data and print a graphical report. From the data table view, see a summary containing min, max and average as well as Mean Kinetic Temperature. Export stored data to an Excel™ spreadsheet. Track-It Software also turns your PC into a real time data acquisition system by allowing you to stream live graphical or tabular data directly to your PC.



Specifications*	Extreme Temperature Data Logger
Measurement:	
Temp. Range (fixed probe)	-58 °F to 302 °F (-50 °C to +150°C)
Accuracy	±0.2 °F from -22 °F to 302°F (±0.1 °C from -30 °C to +150°C) ±0.4 °F from -58 °F to -22°F (±0.2 °C from -50 °C to -30°C)
Temp. Range (flexible probe)	-94 °F to 572 °F (-70 °C to +300 °C) probe only
Accuracy	±0.2 °F from -22 °F to 302 °F (±0.1 °C from -30 °C to +150 °C) ±0.5 °F from -22 °F to 572 °F (±25 °C from -70 °C to +300 °C)
Environmental:	
Temperature Range	-58 °F to 302 °F (-50 °C to +150°C)
Humidity	0 to 100% condensing
Pressure	0 to 9 bar (0 to 130 psi)
Submersion	IP68 – 1.5 m [~ 5 ft.] of static water indefinitely
Battery	3B5700 ½ AA lithium sulfuryl chloride 3.9 V 800 mAh rated 150°C; field replaceable (Monarch PN: 5396-9934) Life: up to 2 years typical @ 1 minute sample rate [@20°C]
Enclosure	Material: 316L stainless steel Dimensions w/out probe: 1.43 in. (dia.) x 2.30 in. [3.6 cm (dia.) x 5.5 cm]
Probe Lengths	1", 2", and 4" [3.6 cm, 5 cm, and 10 cm] Flexible: 22" [56 cm]
General:	
Sample Rate	User-configurable, 1 sample every 2 seconds to 1 every 24 hours
No. of Samples	30,000 stored in non-volatile memory
Record of Trigger	Two independent triggers Multiple trigger modes: Instantaneous, On Alarm, Time and Date (start and stop)
Record Mode	Fill to end of memory or cyclic, number of samples and time duration
Alarms	Two (2) user-programmable alarms (High or Low)
Real-Time Clock	Accuracy ± 1 minute/year at 77 °F [25 °C]
Communication	Reader with USB connection; no need to open logger to read data or program
Calibration	NIST Traceable Calibration
Compliance	CE compliant; Low Voltage Directive (LVD) 2014/35/EU Electromagnetic Compatibility Directive (EMC) 2014/30/EU Restriction of Hazardous Substances (RoHS) Directive 2011/65/EU
Software	Track-It Software — program device, view data (historic or real-time), plot data, export to Excel

Ordering Information	
1" Smooth Probe with NIST	5396-1101
2" Smooth Probe with NIST	5396-1102
4" Smooth Probe with NIST	5396-1103
2" Threaded Probe w/NIST	5396-1104
4" Threaded Probe w/NIST	5396-1105
22" Bendable Probe w/NIST	5396-1106
1" Dual Logger with NIST	5396-1120
1" Smooth Probe and 22" Bendable Probe	
2" Dual Logger with NIST	5396-1121
2" Smooth Probe and 22" Bendable Probe	
4" Dual Logger with NIST	5396-1122
4" Smooth Probe and 22" Bendable Probe	
Dual Logger with NIST	5396-1123
Two 22" Bendable Probes	

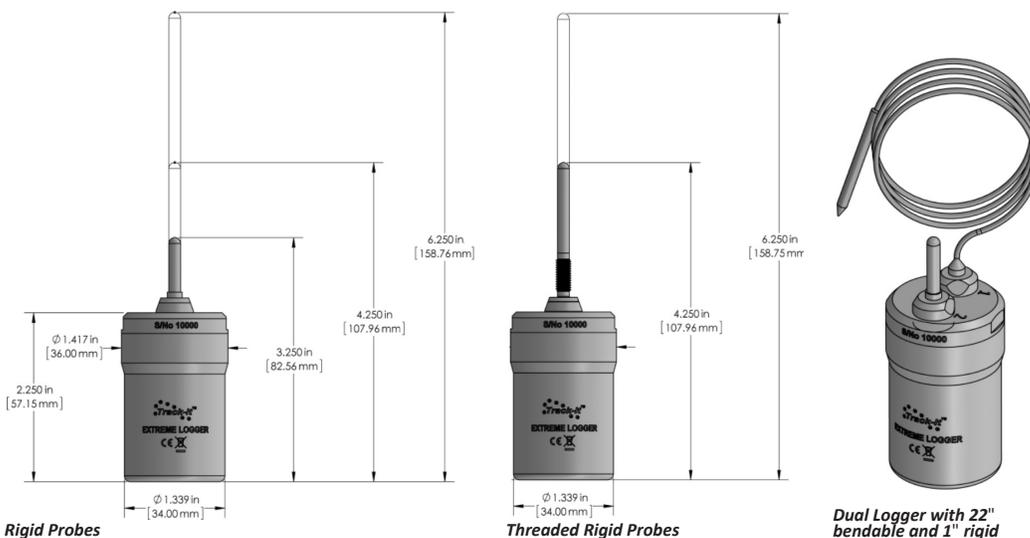
To order, see product's webpage.

3 Probe Options Available



*Specifications are subject to change without notice.

Extreme 1023



15 Columbia Drive, Amherst NH 03031
800-999-3390 // 603-883-3390
sales@monarchinstrument.com

www.monarchinstrument.com