

## ULTRA-PRECISE TEMPERATURE RECORDER LOGS 1 MILLION READINGS

Telatemp's MicroPOINT1 ML-9A Temperature Data Logger is designed to monitor temperatures from -40°F to +176°F (-40°C to +80°C) with 0.01°C resolution and  $\pm 0.5^\circ\text{C}$  accuracy from 0°C to 50°C. This small, reusable data logger will record up to 1 million date and time stamped temperature readings at user-defined intervals from 1 second to 24 hours. It utilizes a low power microprocessor to record data into a non-volatile memory and operates on a replaceable lithium battery (included).

Features include: a multiple start/stop function, ultra-high speed download capability, optional memory wrap, precision RTD sensing element, battery life indicator, optional password protection, programmable high-low alarms and more.

With the Telatemp Micro Series Software\*, starting, stopping and downloading from the MicroPOINT1 is simple and easy. Data can also be viewed in graphical, tabular, and summary form, displayed in °C, °F, K or °Rankine and saved to your PC as an electronic file. The data can also be exported to Excel® for further calculations.

Complete user manual can be viewed onscreen or printed out from the software.

\*MLSP-USB Software & USB Interface is required.

### FEATURES

- 1 Year Plus Battery Life
- $\pm 0.5^\circ\text{C}$  ( $\pm 0.9^\circ\text{F}$ ) Accuracy
- Multiple Start/Stop Function
- Ultra High Speed Download
- 1 Million Reading Storage Capacity
- Memory Wrap
- Precision RTD Sensing Element
- Battery Life Indicator
- Optional Password Protection
- Programmable High and Low Alarms
- N.I.S.T. Traceable

### BENEFITS

- Simple Setup and Installation
- Minimal Long-Term Maintenance
- Long-Term Field Deployment

### APPLICATIONS

- Cold Chain
- Refrigerator and Freezer Monitoring
- Vaccine Monitoring
- Warehouse Mapping
- HVAC
- General Purpose Temperature Recording

### TO ORDER

- ML-9A MicroPOINT1 Data Logger
- MLSP-USB Software & USB Interface



**WARRANTY:** The following is made in lieu of all warranties, expressed or implied, including the implied warranties of merchantability and fitness of purpose: Seller's and manufacturer's sole obligation shall be to replace such quantity of the product proved by Telatemp Corporation to be defective.

**LIMITATION OF LIABILITY:** All physical properties, statements, and recommendations are either based on tests we believe to be reliable or our experience, but they are not guaranteed. Telatemp Corporation recommends each user determine the suitability of the products for the intended application. Telatemp Corporation shall not be liable for direct, indirect, special, incidental or consequential damages based upon breach of warranty, breach of contract, negligence, strict liability or any other legal theory.

*\*Prices and specifications are subject to change without notice.*



### MICROPOINT1 ML-9A SPECIFICATIONS:

Temperature Sensor:	Precision RTD Element
Temperature Range:	-40°C to +80°C (-40°F to +176°F)
Temperature Resolution:	0.01°C (0.018°F)
Calibrated Accuracy:	±0.5°C (0°C to 50°C) ±1.0°C (-20°C to 0°C and 50°C to 60°C) ±1.3°C (<-20°C and >60°C)
Reading Rate:	1 reading every second to 1 reading every 24 hours
Storage Capacity:	1,000,000 readings; software configurable memory wrap 330,000 readings in multiple start/stop mode
Wrap Around:	Yes
Start Modes:	~ Immediate start ~ Delay start up to 18 months ~ Multiple pushbutton start/stop
Multiple Start/Stop Mode:	Start and stop the device multiple times without having to download data or communicate with a PC
Multiple Start/Stop Mode Activation:	To start the device: Press and hold the pushbutton for 5 seconds, the green LED will flash during this time. The device has started logging.  To stop the device: Press and hold the pushbutton for 5 seconds, the red LED will flash during this time. The device has stopped logging.
Real Time Recording:	The device may be used with PC to monitor and record data in real-time
Alarm:	Programmable high and low limits; alarm is activated when temperature reaches or exceeds set limits
LED Functionality:	Green LED blinks: 10 second rate to indicate logging 15 second rate to indicate delay start mode  Red LED blinks: 10 second rate to indicate low battery and/or full memory 1 second rate to indicate an alarm condition
Password Protection:	An optional password may be programmed into the device to restrict access to configuration options. Data may be read out without the password.
Calibration:	Digital calibration through software
Calibration Date:	Automatically recorded within device
Battery:	Replaceable lithium 3.6V
Battery Life:	1 year typical at a 15 minute reading rate
Data Format:	Date and time stamped °C, °F, K, or °R
Time Accuracy:	±1 minute/month (at 20°C/60°F, stand alone data logging)
Computer Interface:	USB (interface cable required); 115,200 baud
Software:	XP SP3 / Vista / Windows 7
Operating Environment:	-40°C to +80°C (-40°F to +176°F), 0%RH to 95%RH non-condensing
Dimensions:	1.4" x 2.2" x 0.6+(36mm x 56mm x 16mm)
Weight:	0.8 oz (24 g)
Materials:	ABS Plastic
Approvals:	CE

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