

## FOUR CHANNEL QUADTEMP THERMOCOUPLE DATA LOGGER

Telatemp's Micro ML-QuadTemp is a four channel thermocouple data logger that measures and records up to 500,000 readings per channel at a rate of up to 4Hz with a resolution of 0.05°C and accuracy of  $\pm 0.5^{\circ}\text{C}$ . Channels can be enabled or disabled to maximize memory capacity. Each channel can be named with up to a ten digit title for easy identification. Data from the one internal and four remote thermocouple channels are simultaneously logged. External power supply and lithium battery included.

Features include an individual cold function compensation for each channel providing increased accuracy and response time. If a probe is removed or severed during logging the QuadTemp software automatically annotates the data.

Relevant applications include; Warehouse, refrigerator or oven monitoring, smoke houses, food processing, HVAC, engine studies, biomedical research, medical and pharmaceutical.

With the Telatemp Micro Series Software\*, starting, stopping and downloading from the ML-QuadTemp is simple and easy. Data can also be viewed in graphical, tabular, and summary form, displayed in  $^{\circ}\text{C}$ ,  $^{\circ}\text{F}$ , K,  $^{\circ}\text{Rankine}$ , mV, or V 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

- 4Hz Reading Rate
- 500,000 Readings Per Channel
- Open Channel Detection
- Title Channels
- Accepts Thermocouple Types J, K, T, E, R, S, B, N
- External Power or User Replaceable Battery
- Pushbutton or Programmable Start

### BENEFITS

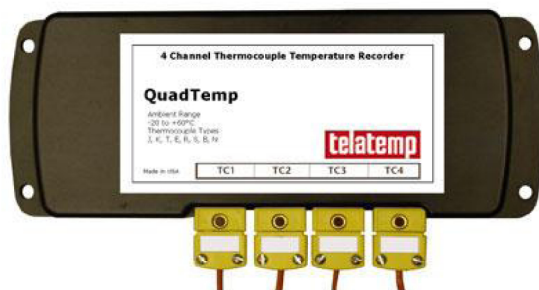
- Simple Setup and Installation
- Minimal Long-Term Maintenance
- Long-Term Field Deployment

### SOFTWARE FEATURES

- Multiple graph overlay
- Statistics
- Zoom in/ zoom out
- Lethality equations (PU, Fo)
- Mean Kinetic Temperature (MKT)
- Full time zone support
- Data annotation & data table view
- Min./ Max./ Average lines

### TO ORDER

- ML-QuadTemp Thermocouple 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 manufacturers' only 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.

ML-QUADTEMP SPECIFICATIONS:

One Internal Channel

Temperature Range: -20°C to +60°C  
Temperature Resolution: 0.05°C  
Calibrated Accuracy: ±0.5°C (0 to +50°C)

Four Remote Channels

Thermocouple Types: J , K, T, E, R, S, B, N  
Thermocouple Connection: Mini Connector  
Cold Junction Compensation: Automatic, based on internal channel  
Maximum Thermocouple Resistance: 1000Ω, <100Ω recommended

Thermocouple Type:	Range	Resolution	Accuracy
J	-210 to +760	0.1°C	±0.5°C
K	-260 to +1370	0.1°C	±0.5°C
T	-260 to +400	0.1°C	±0.5°C
E	-260 to +980	0.1°C	±0.5°C
R	-50 to +1760	0.5 °C	±2.0°C
S	-50 to +1760	0.5 °C	±2.0°C
B	+60 to +1820	0.5 °C	±2.0°C
N	-260 to +1300	0.1°C	±0.5°C

Start Modes: Software programmable immediate start or delay start up to six months in advance

Real Time Recording: May be used with PC to monitor and record data in real time

Memory: 500,000 readings per channel, channels can be disabled to increase memory

Reading Rate: 4 readings per second up to 1 every 24 hours

Calibration: Digital calibration through software

Calibration Date: Automatically recorded within device

Battery Type: Replaceable 9 Volt lithium or alkaline battery included

Battery Life: 12 months typical

Data Format: Date and time stamped °C, °F, K, °R, mV, V

Time Accuracy: ±1 minute/month

Computer Interface: USB (Interface cable required); 115,200 baud

Software: XP SP3 / Vista / Windows 7

Operating Environment: -20°C to +60°C, 0 to 95%RH non-condensing

Dimensions: 7.24" x 2.7" x 1.02" (183mm x 68mm x 26mm)

Material: Black anodized aluminum

Weight: 15.2 oz (430 g)

Approvals: CE