

SUBMERSIBLE THERMOCOUPLE TEMPERATURE DATA LOGGER WITH STAINLESS STEEL CASE

Telatemp's Micro Submersible ML-HTS-B-TC Thermocouple-Based Temperature Data Logger allows for measuring temperatures in harsh environments. This instrument is rated for a -40°C to $+80^{\circ}\text{C}$ environment with a temperature resolution of 0.1°C and an accuracy of $\pm 0.5^{\circ}\text{C}$ (0 to $+50^{\circ}\text{C}$). Featuring an internal and an external thermocouple channel with a reading capacity of 16,383 per channel of date and time stamped data points. Reading rates can be configured at 1 reading every 2 seconds to 1 every 12 hours. The logger can be set for an immediate start or delayed start up to six months in advance. Its non-volatile solid state memory provides maximum data security even if the battery becomes discharged (battery included).

Relevant applications include: HACCP programs, warehouse monitoring, well monitoring, environmental studies, medical and pharmaceutical.

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

- Rugged
- Submersible
- N.I.S.T. Traceable
- Real-time Operation
- Programmable Start Time
- Reusable
- User-friendly
- Memory Wrap

BENEFITS

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

SOFTWARE APPLICATIONS

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

TO ORDER

- ML-HTS-B-TC Micro Submersible 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.

MICRO SUBMERSIBLE ML-HTS-B-TC SPECIFICATIONS:

Internal Channel

Temperature Range: -40°C to +80°C
 Temperature Resolution: 0.1°C
 Calibrated Accuracy: ±0.5°C (0 to +50°C)

External Channel

Thermocouple Types: J, K, T, E, R, S, B, N
 Thermocouple connection: Mini Plug
 Cold Junction Compensation: Automatic, based on internal channel

Thermocouple Type:	<u>Range (°C)</u>	<u>Resolution</u>	<u>Accuracy</u>
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

*Thermocouple accuracy is specified with a 24 AWG, 3 meter thermocouple

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: 16,383 readings per channel; 32,766 total readings; software configurable memory wrap

Reading Rate: 1 reading every 2 seconds to 1 every 12 hours

Calibration: Digital calibration through software

Calibration Date: Automatically recorded within device

Battery Type: Replaceable 3.6V lithium battery included

Battery Life: 1 year typical (1 minute reading rate at 25°C)

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

Time Accuracy: ±1 minute/month (at 20°C, RS232 port not in use)

Computer Interface: PC serial or USB (interface cable required); 2,400 baud

Software: XP SP3 / Vista / Windows 7

Operating Environment: - 40 to +80°C, 0 to 100%RH; Submersible to 150 feet

Dimensions: 7.4" x 1.2" dia. (188mm x 31mm dia.)

Materials: 303 Stainless Steel

Weight: 13 oz (380 g)