

NEW THERMOCOUPLE TEMPERATURE DATA LOGGER FEATURES AN LCD DISPLAY

Telatemp's Micro TCTemp2000 is a battery powered data logger that can be used to record ambient temperatures from -20°C to +60°C with a temperature resolution of 0.1°C and calibrated accuracy of $\pm 1.0^\circ\text{C}$ (0°C to +50°C). This instrument also has one external mini-connector input for type J, K, T, E, R, S, B, and N thermocouples. The TCTemp2000 has one of the largest memory capacities with 131,071 date and time stamped readings per channel. The non-volatile memory will retain recorded data, even if AC and battery power are lost. The AC adapter and 9V battery are included.

The TCTemp2000 can record with the LCD and backlight continuously active on the included AC power supply. The battery can remain installed to provide back-up power. In battery-only mode with continuous LCD and no backlight usage, typical battery life is 30 days. For power savings, both the LCD and backlight have configurable auto-off options providing typical battery duration of approximately 1 year at a 1 minute reading rate.

Relevant applications include: HVAC applications, Oven profiling, HACCP program implementation, process verification and validation, warehouse monitoring, museum and laboratory monitoring, medical/pharmaceutical, environmental studies, food storage, live cargo transport, concrete curing/construction

With the Telatemp Micro Series Software*, starting, stopping and downloading from the TCTemp2000 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

- Large, backlit LCD
- Internal temperature sensor and one external thermocouple input type J, K, T, E, R, S, B, N
- Front keypad with lock feature
- High speed download
- Real-time operation
- Min./max. and average statistics
- Programmable start/stop time
- N.I.S.T. traceable calibration
- User replaceable battery or external power supply
- Wall mountable

BENEFITS

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

SOFTWARE FEATURES:

- Multiple graph overlay
- Statistics
- Digital calibration
- Zoom in/ zoom out
- Lethality equations (F0, PU)
- Mean Kinetic Temperature
- Full time zone support
- Data annotation
- Min./Max./Average lines
- Data table view
- Automatic report generation
- Summary view



TO ORDER

- ML-LCD-TCT Micro TCTemp2000 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.

TCTEMP2000 ML-LCD-TCT SPECIFICATIONS:

Internal Channel

Temperature Range: -20°C to +60°C
 Temperature Resolution: 0.1°C
 Calibrated Accuracy: ±1.0°C (0 to +50°C)

Thermocouple Channel

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 Range (°C)

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

Dimensions: 2.5" x 1.375" (63mm x 35mm)
 Text: Configurable channel text size
 Indicators: Power, status, memory
 Backlight: Configurable w/auto shut-off and contrast adjustment
 Start/Stop Time: Software programmable start time and date, up to six months in advance; programmable stop time
 Memory: 131,071 readings per channel; 262,143 total readings; software configurable memory wrap
 Reading Rate: 1 reading every 2 seconds to 1 every 24 hours
 Calibration: Digital calibration through software
 Calibration Date: Automatically recorded within device
 Battery Type: Replaceable 9V lithium battery included
 Battery Life: 1 year battery life at 1 min reading rate with display off, 30 days typical with continuous LCD and no backlight usage
 AC Power: AC power supply included
 Data Format: Date and time stamped °C, °F, K, °R

Time Accuracy: ± 1 minute/month (at 20°C to 30°C)
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: 4.8" x 3.3" x 1.25" (122mm x 84mm x 32mm)
Weight: 16 oz (440 g)
Enclosure: Black anodized aluminum
Approvals: CE