ULTRA LOW TEMPERATURE DATA LOGGER

Telatemp's ultra low temperature Micro Cryo-Temp ML-CRT Temperature Data Logger can record temperatures as low as -86°C to +35°C with 0.1°C resolution and accuracy of ±1.0°C. This data logger does not require any additional probes, is IP65 splash resistant, and is designed with a handle for easy attachment. The ML-CRT can provide up to 32,767 date and time stamped temperature readings at user-defined intervals from 5 seconds to 30 minutes, selectable in the software.

The data logger features a 3 LED notification system: Green LED will blink every 15 seconds while the recorder is logging data. Yellow LED will blink every 3 seconds when the user-defined warning limits have been breeched. Red LED will blink every 3 seconds when the temperature alarm limits have been exceeded.

Relevant applications include: dry ice shipments, plasma and red cell freezers, monitoring frozen vaccines, cold chain monitoring, medical and pharmaceutical shipping, ultra low temperature storage, and deep frozen foods.

With the Telatemp Micro Series Software*, starting, stopping and downloading from the Micro ML-CRT 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 software also supports lethality analysis PU and Fo. The data can 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
- Ultra low Operating Temperature (-86°C)
- May be place in Direct Contact with Dry Ice
- No External Probes or Wiring
- High Accuracy
- Programmable Alarm and Warn Ranges With Alarm Delay
- LED Indicators for Instant Alarm Notification
- Magnetic Start
- Optional Password Protection
- Splash Resistant (IP65)
- CE Compliant

BENEFITS
- Simple Setup and Installation
- Minimal Long-Term Maintenance

SOFTWARE APPLICATIONS
- 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
- Micro ML-CRT Data Logger
- MLSP-UDRI Software & USB Interface with Docking Station

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.

Prices and specifications are subject to change without notice.

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MICRO CRYO-TEMP ML-CRT SPECIFICATIONS:

Temperature Sensor:	NTC Thermistor
Temperature Range:	-86°C to +35°C recommended, may be used up to +55°C
Temperature Resolution:	0.1°C
Calibrated Accuracy:	±1.0°C
Reading Rate:	5 seconds to 30 minutes, selectable in software
Memory:	32,767 readings; software configurable memory wrap
Start Modes:	Software programmable immediate start, delay start up to 30 days in advance or manual start with magnetic switch.
Temperature Alarm:	Software programmable high and low alarm limits, high and low warn limits each setpoint may be individually enabled or disabled
Alarm Delay:	Software programmable time delay for warn/alarm limits. Logger will not indicate out of range status until the temperature has been out of range for a set period of time.
Status Indicators:	Green: Blinks to indicate safe conditions during logging
	Yellow: Blinks to indicate warn limits have been exceeded
	Red: Blinks to indicate alarm criteria
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 Type:	Factory replaceable 3.6V lithium battery
Battery Life:	2 years typical @ 25°C, 1 min. reading intervals
	1 year typical @ . 80°C, 1 min. reading intervals
Data Format:	Date and time stamped °C, °F, K, °R
Time Accuracy:	±2 minutes/month max. at 20 to 30°C
	±5 minutes/month max at . 80°C
Computer Interface:	USB docking station to PC (IFC300), 38,400 baud
Software:	XP SP3 / Vista / Windows 7
Operating Environment:	-86°C to +35°C (may be used up to +55°C); 0 to 100% RH
Dimensions:	3.3+x 2.1+x 0.4+(83 mm x 54 mm x 11 mm)
Ingress Protection/IP Rating:	IP65 (splash resistant, not submersible)
Enclosure:	ABS plastic, white, polycarbonate labeling
Weight:	1.4 oz (40 g)
Compliance:	CE

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