Series MTL 20/30 Miniature USB Data Logger

Specifications and Operating Instructions

The Series MTL Miniature USB Data Logger measures and records accurate readings for temperature or temperature/humidity/dew point in a wide range of applications. Sampling intervals and high/low alarm settings are user selectable through the included easy to use Windows® based software. Current temperature and/or humidity is displayed on the integral LCD display. The series MTL can be field configured to begin measuring based on a time delayed-start or by push-button. The logger can store up to 43,344 readings and can be set to stop on memory full or for continuous recording. Stored data is downloaded by plugging the unit into a PC's USB port (cable included). The loggers provide measurements for many environment conditions, which make them ideal for refrigeration systems, laboratories, and medical storage facilities.

SOFTWARE INSTALLATION/ OPERATION
Note: Software must be installed prior to plugging the logger into the computer.

1. Place CD into the PC's CD drive and run the installation software. Follow the on screen instructions to complete the installation.

2. After the software is installed, plug the data logger in the PC's USB port using the factory supplied cable and open the Logger Interface program file.

3. To start the configuration, select Setup from the Logger dropdown menu as seen below.
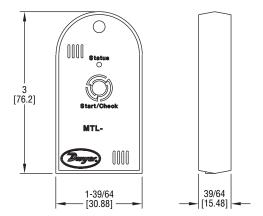

DISPLAY
The display models show the current temperature and humidity reading. MTL-20-LCD displays the temperature only. MTL-30-LCD alternates the display between the temperature and humidity.
In addition to the current sample, the display shows a solid REC icon when logging is in progress. The REC icon flashes when the logger is waiting to begin by either a button press or delayed logging. The ALARM icon is displayed when the recorded data exceeds one of the alarms set by the user during logger setup. An example of the display is shown below.

SPECIFICATIONS
Temperature Range: MTL20: -40 to 185°F (-40 to 85°C); MTL30: -40 to 160°F (-40 to 70°C), 0% to 99% RH (non condensing).
Accuracy: MTL20: ±1˚F (±0.5˚C); MTL30: ±1˚F (±0.5˚C), ±2% RH from 10% to 90% RH.
Resolution: Non-LCD models: 0.01°F (0.01°C), 0.01% RH; LCD models: 0.1°F (0.1°C), 0.1% RH.
Memory Size: 43,344 temperature; 21,672 each temperature and RH.
Sampling Mode: Stop on memory full or memory rollover for continuous recording.
Sampling Rate: 1 sec. to 18 hrs.
Computer Requirements: Windows® based application software included.
Power Requirements: 3.0 V lithium battery (included).
Alarms: Programmable high/low.
Interface: USB port (cable included).
Weight: 1 oz (28 g)**.**
Agency Approvals: CE**.**

LED FLASHING MODES (non-display models only)
Note: If the push button start is selected, the button must be pushed and held down until LED flashes to start the logger.

MTL Series: Features a red/green LED.

🟢	(Single flash)	Not logging, and is ready for setup.
🟢	(Multiple flash)	Logging, no alarm.
🔴	(Multiple flash)	Logging, alarm.
🟢 🔴	(Alternating flash)	Logger is ready and will begin taking data at specified start date and time.

MAINTENANCE
Upon final installation of the Miniature Data Logger, no routine maintenance is required. A periodic check of system calibration is recommended. The Series MTL is not field serviceable and should be returned if repair is needed (field repair should not be attempted and may void warranty). Be sure to include a brief description of the problem plus any relevant application notes. Contact customer service to receive a return goods authorization number before shipping.

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