MARATHON PRODUCTS

EDL-XYZ™ Data Loggers

Digital Temperature, RH and Vibration Recorder with Large, Easy-to-Read Display

The EDL-XYZ multi-use data logger can be used to monitor fragile goods during shipment. It contains a temperature sensor, a high accuracy humidity sensor and a 3-D accelerometer. The latter controls the motion and vibration of a truck during shipment. It can also be used for monitoring machinery wear, vibration, impact and shock for all applications.

FEATURES:

- High accuracy thermistor for temperature measurement.
- High accuracy humidity sensor.
- 3-D accelerometer for motion and vibration detection.
- Alarm for out of limits operation for all sensors.
- Recording time updated on LCD display.
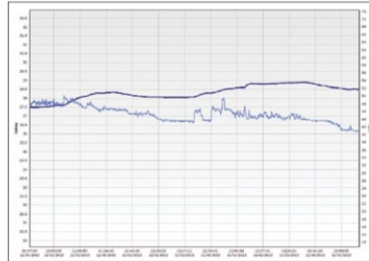
Temperature Range
-29°C to 72°C
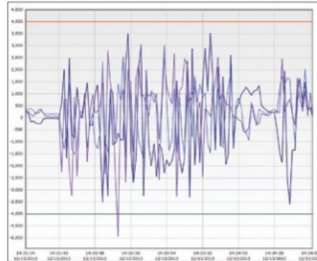-20°F to 60°F

Humidity Range
0% to 00%
3-D Accelerometer Range:
±2G; ±4G; ±8G; ± 6G
Maximum vibration bandwidth: 500Hz

Memory EEPROM, Storage
Temperature: 8k
Humidity: 8k
Vibration: 42k

- Flexible recording interval time for temperature and humidity.
- Recording time automatically fixed by firmware for motion and vibration.
- Non-volatile memory for data saving
- Trigger threshold set by user for vibration data saving.
- MaxiThermal vibration software for logger parameters setting and monitoring results.
- LCD display for temperature, humidity, and 3 axis vibration.

Applications:

- Vibration, shock, impact monitoring and data logging.
- Monitoring the transport conditions for fragile goods.
- Monitoring machinery wear.

Waterproof Enclosure:
The product package is hermetically sealed to an IP66 rating.

EDL-XYZ DATA LOGGER SPECIFICATIONS

Memory EEPROM, Storage:	Temperature: 8k, Humidity: 8k, Vibration: 42k
Temperature Range:	-29° C to +72° C / -20° F to +160° F
Temperature Accuracy:	±0.2°C from 0° to 10°C, ±0.5°C at extremes / ±0.4°F from 32° to 50°F, ±0.9°F at extremes
Thermal Sensor:	Wired Chip in Glass Thermistor
Temperature Resolution:	0.2°C / 0.4°F

Measurement Intervals:	Programmable from 2 seconds to months.	
Examples:	Temp/RH - 8K	Vibration - 42K
4 days	0 min. 43 sec.	0 min. 8 sec.
7 Days	1 min. 15 sec.	0 min. 14 sec.
16 Days	2 min. 50 sec.	0 min. 32 sec.
30 Days	5 min. 18 sec.	1 min. 0 sec.
60 Days	10 min. 36 sec.	1 min. 59 sec.
90 Days	15 min. 54 sec.	2 min. 59 sec.
365 Days	1hr. 4 min. 28 sec.	12 min. 2 sec.

Humidity Range:	0% to 100%
Humidity Accuracy:	±3% RH from 25% to 75%, ±5% RH at extremes
Humidity Sensor:	Capacitive Cell
3-D Accelerometer:	Range: ±2G; ±4G; ±8G; ±16G Maximum vibration bandwidth: 500Hz Accuracy: ±0.05G for 0 to 16G Resolution: ±0.01G for 0 to 16G
High and Low Alarm Limits:	LED display set for temperature, humidity and vibration
Computer Interface:	Mini USB Connector
Internal Software Provides:	Start time, Interval, User description, Alarm values, Recording status, Measurement data, Software version, Serial number, Model type
Power Source:	One CR2450 Lithium Battery with a 1 year operating life and a 5 year shelf life.

Size:	Length	Width	Depth
	9.0 cm (3.5 in.)	5 cm (1.96 in.)	2.8 cm (1.1 in.)

Weight:	90 g / 2.6 oz.
Warranty:	12 months
CE Certified:	CE Marking File

For FDA, GxP, JCAHO, CAP, HFAP, CARF, CHAP, ACHC, URAC, HQAA, AABB and Regulatory Compliance

Optional bracket

SAFE CERTIFIED SHIPPING

Temperature & Humidity Recording Graph

Vibration Recording Graph