LOW TEMPERATURE MONITORING

TRIL-8

Multi-Use Low Temperature Logger

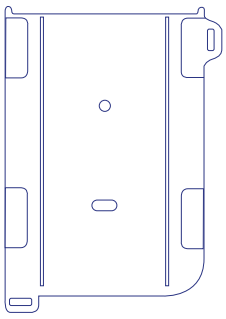
LogTag Recorders

The LogTag® Dry Ice "Probe-less" Temperature Logger operates, measures and stores up to 8000 temperature readings in temperature environments ranging from -80°C to +40°C (-112°F to +104°F).

Intended for use in transit monitoring of articles stored in packaging incorporating dry ice cooling agents.

The LogTag® Dry Ice Temperature Logger is easily configured for recording conditions including delayed start, sampling interval, number of readings and configuration of conditions to activate the ALERT indicator.

Accessories



Wall Mount
Not Included

LTI HID
Not Included

LTI WiFi
Not Included

Features

Records temperature from +40°C to as low as -80°C

A real time clock provides date/ time stamps for each temperature reading.

Up to 8,000 recordings - enough for the longest trip.

Push-to-start button with optional delay or a specific time & date.

In-transit inspections can be recorded at the push of a button.

Comprehensive customization options including alarm settings, sample interval and trip duration.

Applications

Pharmaceutical Transport

Blood & Organ Transport

Chemical Transport

Manufacturing Distribution

Specifications

Product Model	TRIL-8 - Multi-use: up to 1000hrs @ -80°C (-112°F)
Sensor Measurement Range	-80°C to +40°C (-112°F to +104°F).
Operating Temperature Range	-80°C to +40°C (-112°F to +104°F).
Storage Temperature Range	-20°C to +40°C (-4°F to +104°F).
Rated Temperature Reading Accuracy	Better than ±1°C (±1.8°F) for -30°C to +20°C (-22°F to +68°F). Better than ±1.2°C (±2.1°F) for -45°C to -30°C (-49°F to -22°F) and +20°C to +40°C (+68°F to +104°F). Better than ±1.7°C (±3.1°F) for -80°C to -45°C (-112°F to -49°F). *Actual performance is typically much better than the rated values. Accuracy figures can be improved by recalibration.*
Rated Temperature Reading Resolution	Less than 0.1°C (0.2°F) for -80°C to 0.0°C (-112°F to +32°F), Less than 0.2°C (0.4°F) for 0.0°C to +20°C (+32°F to +68°F), Less than 0.5°C (0.9°F) for +20°C to +40°C (+68°F to +104°F). *LogTag Analyzer® currently displays to one decimal place of °C or °F. The native resolution is what is stored in the LogTag®.*
Sensor Reaction Time	Typically less than 5 minutes (T90) in moving air (1m/s).
Recording Capacity	8031 temperature readings. 53 days @ 10min logging, 80 days @ 15min logging.
Sampling Interval	Configurable from 1 minute to several hours
Logging Start Options	Push button start with optional start delay or specific date & time.
Recording Indication	Flashing 'OK' indicator / flashing 'ALERT' indicator.
Download Time	Typically less than 5 seconds for full memory (8031 readings), depending on computer or readout device used.
Environmental	IP65 (roughly equivalent to NEMA 4).
Power Source	3.6V low temperature chemistry Lithium (Fixed) battery.
Battery Life	Minimum storage life of 12 months before 'start'. Rated for up to a total accumulative exposure of 1000hrs @ -80°C across multiple trips.
Real Time Clock	Built-in real time clock. Rated accuracy ±25ppm @ 25°C (equivalent to 2.5 seconds/day). Rated temperature coefficient is -0.034 ±0.006ppm/°C (I.e typically +/- 0.00294 seconds/day/°C).
Size	86mm(H) x 54.5mm(W) x 8.6mm(T).
Weight	33g.
Case Material	Polycarbonate.

designed for 21CFR Part 11

RoHS COMPLIANT