

# LOW TEMPERATURE MONITORING



**LogTag**

**TRIL-8**  
Multi-Use Low Temperature Logger



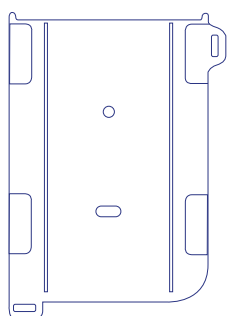
The LogTag® Dry Ice “Probe-less” Temperature Logger operates, measures and stores up to 8000 temperature readings in temperature environments ranging from -80°C to +40°C (-112°F to +104°F).

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

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*Wall Mount*  
Not Included



*LTI HID*  
Not Included



*LTI WiFi*  
Not Included

# Features

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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

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Pharmaceutical Transport



Blood & Organ Transport



Chemical Transport



Manufacturing Distribution

# Specifications

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

