

# MULTI-USE LOW TEMPERATURE LOGGER



## LTUTREL16

COVID-19 Vaccine Cold Chain Temperature Monitor

USB External Probe Low Temperature  
Logger with Display



The LTUTREL16 is an affordable & reliable USB low temperature recorder, measures and stores real time temperature readings over a measurement range of -90°C to +40°C (-130°F to +104°F).

The LTUTREL16 comes with advanced temperature recorder features of 16,000 log memory and can be used with the ST10 external probes range. It complies with relevant international standards for temperature monitoring devices, such as FCC, CE, IC and RCM.

## Accessories

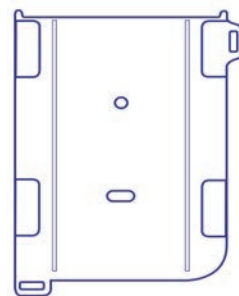
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Buffer assembly  
Not Included



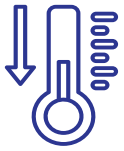
ST10 Ext Probe  
Not Included



Wall Mount  
Not Included

# Features

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Records temperature from  $-90^{\circ}\text{C}$  to  $+40^{\circ}\text{C}$ .



Measure and store up to 16,000 time/temperature readings.



Up to 16,000 recordings - enough for 168 days at 15 minute logging.



Can be connected to any computer with a USB port. No interface cradle required.



Read current temperature and latest Min-Max temperature at a glance.



Fixed battery of 1 year storage, 2 years of normal use.



Display showing temperature and alarm status of up to six alarms.



Creates a comprehensive data file compatible with LogTag Analyzer operating software.



Automatic generation of a PDF report as a permanent record of the data.



Auto-pause function suspends alarm and statistic processing when the external sensor is unplugged.

# Applications

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Vaccine & Pharmaceuticals



Chemicals



Healthcare



Cold Storage

# Specifications

<b>Product Model</b>	LTUTREL16
<b>Sensor Measurement Range</b>	-90°C to +40°C (-130°F to +104°F).
<b>Operating Temperature Range</b>	-30°C to +60°C (-22°F to +140°F).
<b>Storage Temperature Range</b>	0°C to +40°C (32°F to +104°F).
<b>Rated Temperature Reading Resolution</b>	0.1°C (0.2°F) for measurements -80°C to 0°C (-112°F to 32°F). 0.2°C (0.4°F) for measurements 0°C to 18°C (32°F to 64.4°F) and -90°C to -80°C (-130°F to -112°F). 0.3°C (0.5°F) for measurements 18°C to 30°C (64.4°F to 86°F). 0.5°C (0.9°F) for measurements 30°C to 40°C (86°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®.
<b>Rated Temperature Reading Accuracy</b>	Better than ±0.5°C for -20°C to +10°C (-4°F to 50°F). Better than ±0.7°C for -50°C to -20°C (-58°F to -4°F) and +10°C to +30°C (50°F to 86°F). Better than ±1°C for -80°C to -50°C (-112°F to -58°F) and +30°C to +40°C (86°F to 104°F). Better than ±1.2°C for -90°C to -80°C (-130°F to -112°F).
<b>Recording Capacity</b>	16,129 temperature readings. 112 days @ 10min logging, 168 days @ 15min logging. Statistics memory (for display on LCD): Max/Min values and alarm duration values.
<b>Sampling Interval</b>	Configurable from 30 seconds to 18 hours.
<b>Logging Start Options</b>	Push button start or specific date & time. Optional start delay of up to 72 hours.
<b>Recording Indication</b>	"REC" symbol on LCD
<b>Alarms</b>	Three configurable upper and three configurable lower alarms.
<b>Logging Start Options</b>	Push button start or specific date & time. Optional start delay.
<b>Download Time</b>	Typically with full memory (16,129 readings) in less than 30 seconds from time of insertion to availability of PDF report. Typically less than 10 seconds from time of insertion to availability of LTD file in LogTag® Analyzer (if configured)
<b>Environmental</b>	IP61 (when vertically mounted or hung with USB dust-cap in place).
<b>Power Source</b>	CR2450 3V LiMnO <sub>2</sub> (Fixed battery).
<b>Battery Life</b>	1 year storage, 2 years of normal use (based on 15 minute logging, download data monthly).
<b>Real Time Clock</b>	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).
<b>Connection Interface</b>	USB 2.0, A-type plug.
<b>Software</b>	PDF Reader, LogTag® Analyzer 3.1.9 or higher.
<b>PDF Report</b>	One page report with trip and alarm summary. Multi-page report with list of readings, including date and time.
<b>Size</b>	93mm(H) x 54.5mm(W) x 8.6mm(T) including protective USB cap.
<b>Weight</b>	39g.
<b>Case Material</b>	Polycarbonate.

