

# TEMPERATURE MONITORING AT A GLANCE



**LogTag**®

**TRED30-16R**  
30 Day Display  
External Probe Logger



The LogTag® TRED30-16R Temperature Recorder measures and stores up to 15,900 temperature readings over a -40 °C to +99 °C (-40 °F to +210 °F) measurement range from an External Probe.

The display is designed to show ‘at a glance’ if temperature excursions have occurred during the current day and up to the previous 29 days.

The alarm is triggered if temperature readings are outside pre-set alarm limits. The status indicator changes from a ✓ to a X and, if configured, the audible alarm will sound.

# Accessories



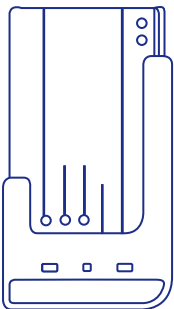
**LTI-HID**  
Not Included (Required)  
Order Code: LTI-HID



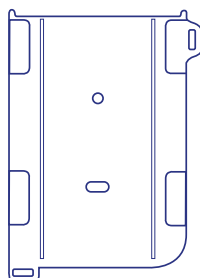
**Glycol Buffer**  
Not Included  
Order Code: Glycol Buffer-70ml



**External Probe**  
Not Included



**LTI-WM-WiFi**  
Not Included  
Order Code: LTI-WM-WiFi



**Wall Mount**  
Not Included  
Order Code: WMB-01

## Popular Compatible Probes:

Order Code	Exposed Tip Length	Tip Diameter	Cable Length
<b>ST100K-15</b>	65mm	ø3.2mm	1.5m (4'11")
<b>ST100K-30</b>	65mm	ø3.2mm	3m (9'10")
<b>ST100S-15</b>	22.5mm	ø5mm	1.5m (4'11")
<b>ST100S-30</b>	22.5mm	ø5mm	3m (9'10")

For more probe options, scan the QR code to download the External Probe Brochure



<https://lt.help/16ubp>

# Features

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Up to 15,900 sets of recordings - enough memory for 66 days at 6min logging



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



Records temperature from -40 °C to +99 °C



Inspections can be recorded at the push of a button



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



Built-in audible alarm



Auto-pause function - unplugging the external probe automatically suspends alarm and statistics processing



Interchangeable External Probe with high quality gold plated connector



User replaceable coin cell battery



Rapid configuration and download

# Applications



Healthcare



Pharmaceuticals



Transportation



Cold Room



Produce



Blood and Organ Transport



Indoor Space



HVAC

# Specifications

<b>Product Model</b>	TRED30-16R (Replaceable Battery)
<b>External Temperature Sensor Measurement Range</b>	-40 °C to +99 °C (-40 °F to +210 °F)
<b>Operating Temperature Range</b>	-30 °C to +60 °C (-22 °F to +140 °F)
<b>Storage Temperature Range</b>	-10 °C to +40 °C (+14 °F to +104 °F)
<b>Rated Temperature Reading Accuracy</b>	Better than $\pm 0.5$ °C ( $\pm 0.9$ °F) for -20 °C to +40 °C (-4 °F to +104 °F), typically $\pm 0.3$ °C (0.6 °F) Better than $\pm 0.8$ °C ( $\pm 1.4$ °F) for -40 °C to -20 °C (-40 °F to -4 °F), typically $\pm 0.5$ °C (0.9 °F) Better than $\pm 0.8$ °C ( $\pm 1.4$ °F) for +40 °C to +70 °C (+104 °F to +158 °F), typically $\pm 0.7$ °C (1.3 °F) Better than $\pm 1.2$ °C ( $\pm 2.2$ °F) for +70 °C to +99 °C (+158 °F to +210 °F), typically $\pm 1$ °C (1.8 °F) Actual performance is typically much better than the rated values. Accuracy figures can be improved by recalibration.
<b>Rated Temperature Reading Resolution</b>	0.1 °C (0.2 °F) for measurements -40 °C to +50 °C (-40 °F to +122 °F) 0.2 °C (0.4 °F) for measurements +50 °C to +70 °C (+122 °F to +158 °F) 0.3 °C (0.5 °F) for measurements +70 °C to +80 °C (+158 °F to +176 °F) 0.4 °C to 0.6 °C (0.7 °F to 1 °F) for measurements +80 °C to +99 °C (+176 °F to +210 °F) LogTag Analyzer® currently displays to one decimal place of °C or °F. The native resolution is what is stored in the LogTag®
<b>Recording Capacity</b>	15,905 temperature readings 66 days @ 6 minute logging Day summary statistics memory (for display on LCD): up for 30 days of Max/Min/duration and alarm trigger statistics
<b>Sampling Interval</b>	Configurable from 30 seconds to hourly
<b>Logging Start Options</b>	Push button start or specific date and time. Optional start delay of up to 18 hours
<b>Recording Indication</b>	State indicator "REC"
<b>Download Time</b>	Typically less than 10 seconds for full memory (15,905 readings), depending on computer or readout device used
<b>Environmental</b>	IP61 (when vertically mounted or hung)
<b>Power Source</b>	3V CR2032 (LiMnO <sub>2</sub> ) coin cell battery, user replaceable
<b>Battery Life</b>	1 year storage, followed by 1 year of operation with normal use (6 minute logging, statistics reviewed on the display no more than once daily for no longer than 30 seconds each time, download data monthly) <b>NOTE:</b> Continual activation of the audible alarm will reduce the working life of the battery. When an alarm is triggered, the alarm should be cleared and reset as soon as possible
<b>Real Time Clock</b>	Built-in real time clock Rated accuracy $\pm 25$ ppm @ 25°C (equivalent to 2.5 seconds/day) Rated temperature coefficient is $-0.034 \pm 0.006$ ppm/°C (i.e typically +/- 0.00294 seconds/day/°C)
<b>Standard External Probe Cable Lengths</b>	Standard: 1.5m (4'11") Extended: 3m (9'10") (recommended maximum)
<b>Remote External Probe Type</b>	PTFE (FDA food contact rated) coaxial
<b>Size</b>	93mm(H) x 54.5mm(W) x 8.6mm(T)
<b>Weight</b>	43g without External Probe
<b>Case Material</b>	Polycarbonate

