

# TEMPERATURE MONITORING AT A GLANCE



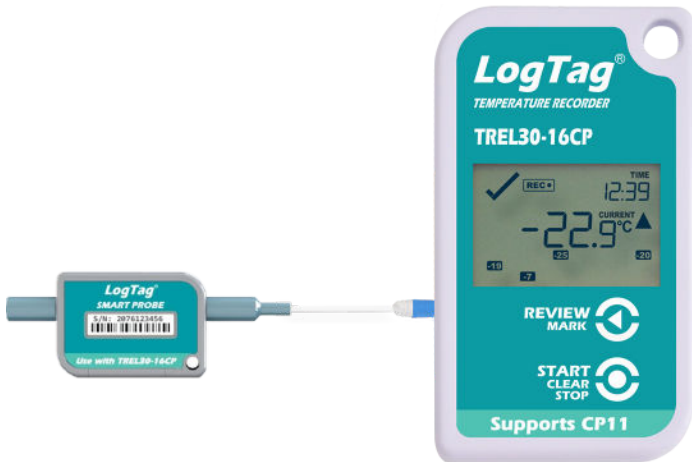
**LogTag**®

**TREL30-16CP**  
Smart Probe Capable

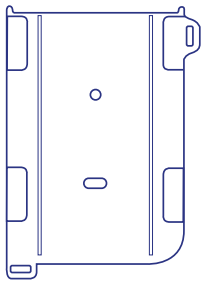
The LogTag® TREL30-16CP is the Smart Probe ready iteration of the LogTag® TREL30-16R.

When paired with the compatible LogTag® CP11 Smart Probe, you remove the need to relocate or return the LogTag® TREL30-16CP temperature recorder for calibration, ensuring continuous and uninterrupted logging.

The LogTag® TREL30-16CP temperature recorder measures and stores up to 15,900 temperature readings in temperature environments ranging from -80°C to +40°C (-112°F to +104°F). Measurement range from either a Smart Probe or Traditional Probe.



# Accessories



**Wall Mount**  
Not Included



**Glycol Buffer**  
Not Included



**Smart Probe**  
Not Included (Recommended)

OR

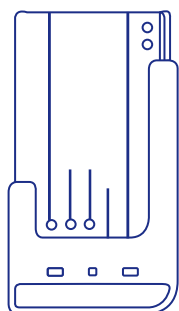


**External Probe**  
Not Included

Sensors are available with a 1.5m or 3m cable.  
E.g. ST100J-15 for 1.5m or ST100J-30 for 3m cable.

## Compatible probes below:

<b>CP11S</b> (Smart Probe)	75mm tip length, ø3.2mm
<b>ST100J</b>	40mm tip length, ø3.2mm.
<b>ST100K</b>	65mm tip length, ø3.2mm.
<b>ST100L</b>	90mm tip length, ø3.2mm.
<b>ST100S</b>	22mm tip length, ø5mm.
<b>ST100T</b>	105mm tip length, ø5mm.
<b>ST100H</b>	Handled with 105mm tip length, ø5mm.
<b>ST100B</b>	Untipped (bare sensor).
<b>STX50</b>	5 Meter extension cable for ST100 sensors.



**LTI-WM-WiFi**  
Not Included



**LTI-HID**  
Not Included (Required)

# Features

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The LogTag<sup>®</sup> TREL30-16CP is fully compatible with the LogTag<sup>®</sup> CP11 Smart Probe.



Temperature recording range of: -40°C to +99°C.



Stores up to 15,900 temperature recordings, enough memory to log for 66 days at 6min logging intervals.



Inspections can be recorded at the push of a button.



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



Built-in audible alarm.



Auto-pause function - unplugging the external probe automatically suspends alarm & 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 & Organ Transport



Indoor Space



HVAC

# Specifications

<b>Product Model</b>	TREL30-16CP (Replaceable Battery).
<b>External Temperature 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>	-10°C to +40°C (14°F to +104°F).
<b>Rated Temperature Reading Accuracy</b>	Better than $\pm 0.5^{\circ}\text{C}$ for $-20^{\circ}\text{C}$ to $+10^{\circ}\text{C}$ ( $-4^{\circ}\text{F}$ to $50^{\circ}\text{F}$ ). Better than $\pm 0.7^{\circ}\text{C}$ for $-50^{\circ}\text{C}$ to $-20^{\circ}\text{C}$ ( $-58^{\circ}\text{F}$ to $-4^{\circ}\text{F}$ ) and $+10^{\circ}\text{C}$ to $+30^{\circ}\text{C}$ ( $50^{\circ}\text{F}$ to $86^{\circ}\text{F}$ ). Better than $\pm 1^{\circ}\text{C}$ for $-80^{\circ}\text{C}$ to $-50^{\circ}\text{C}$ ( $-112^{\circ}\text{F}$ to $-58^{\circ}\text{F}$ ) and $+30^{\circ}\text{C}$ to $+40^{\circ}\text{C}$ ( $86^{\circ}\text{F}$ to $104^{\circ}\text{F}$ ). Better than $\pm 1.8^{\circ}\text{C}$ for $-90^{\circ}\text{C}$ to $-80^{\circ}\text{C}$ ( $-130^{\circ}\text{F}$ to $-112^{\circ}\text{F}$ ). Actual performance is typically much better than the rated values. Accuracy figures can be improved by recalibration. When used with the CP11 Smart Probe refer to CP11 data sheet for accuracy reading.
<b>Rated Temperature Reading Resolution</b>	$0.1^{\circ}\text{C}$ ( $0.2^{\circ}\text{F}$ ) for measurements $-80^{\circ}\text{C}$ to $0^{\circ}\text{C}$ ( $-112^{\circ}\text{F}$ to $32^{\circ}\text{F}$ ). $0.2^{\circ}\text{C}$ ( $0.4^{\circ}\text{F}$ ) for measurements $0^{\circ}\text{C}$ to $18^{\circ}\text{C}$ ( $32^{\circ}\text{F}$ to $64.4^{\circ}\text{F}$ ) and $-90^{\circ}\text{C}$ to $-80^{\circ}\text{C}$ ( $-130^{\circ}\text{F}$ to $-112^{\circ}\text{F}$ ). $0.3^{\circ}\text{C}$ ( $0.5^{\circ}\text{F}$ ) for measurements $18^{\circ}\text{C}$ to $30^{\circ}\text{C}$ ( $64.4^{\circ}\text{F}$ to $86^{\circ}\text{F}$ ). $0.5^{\circ}\text{C}$ ( $0.9^{\circ}\text{F}$ ) for measurements $30^{\circ}\text{C}$ to $40^{\circ}\text{C}$ ( $86^{\circ}\text{F}$ to $104^{\circ}\text{F}$ ). 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 @ 6min 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 & time. Optional start delay of up to 18hours.
<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). NOTE: 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 $\pm 25\text{ppm}$ @ $25^{\circ}\text{C}$ (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>Standard External Probe Cable Lengths</b>	Standard: 1.5m (4'11"). Extended: 3 m (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>	41g without External Probe.
<b>Case Material</b>	Polycarbonate.

