

TEMPERATURE MONITORING AT A GLANCE



LogTag®

TRED30-16CP
Smart Probe Capable

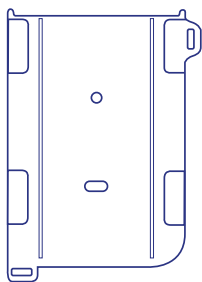
The LogTag® TRED30-16CP is the Smart Probe ready iteration of the LogTag® TRED30-16R.

When paired with the compatible LogTag® CP110 Smart Probe, you remove the need to relocate or return the LogTag® TRED30-16CP temperature recorder for calibration, ensuring continuous and uninterrupted logging.

The LogTag® TRED30-16CP 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 either a Smart Probe or Traditional Probe.



Accessories



Wall Mount
Not Included



Glycol Buffer
Not Included

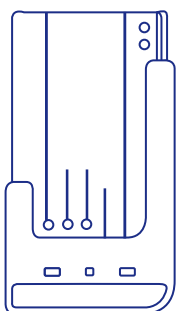


Smart Probe
Not Included (Recommended)

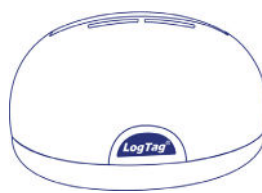
OR



External Probe
Not Included



LTI-WM-WiFi
Not Included



LTI-HID
Not Included (Required)

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:

CP110K (Smart Probe)	75mm tip length, ø3.2mm
ST100J	40mm tip length, ø3.2mm.
ST100K	65mm tip length, ø3.2mm.
ST100L	90mm tip length, ø3.2mm.
ST100S	22mm tip length, ø5mm.
ST100T	105mm tip length, ø5mm.
ST100H	Handled with 105mm tip length, ø5mm.
ST100B	Untipped (bare sensor).
STX50	5 Meter extension cable for ST100 sensors.

Features



The LogTag ® TRED30-16CP is fully compatible with the LogTag ® CP110 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

Product Model	TRED30-16CP (Replaceable Battery).
External Temperature Sensor Measurement Range	-40°C to +99°C (-40°F to +210°F).
Operating Temperature Range	-30°C to +60°C (-22°F to +140°F).
Storage Temperature Range	-10°C to +40°C (14°F to +104°F).
Rated Temperature Reading Accuracy	Better than $\pm 0.5^{\circ}\text{C}$ ($\pm 0.9^{\circ}\text{F}$) for -20°C to $+40^{\circ}\text{C}$ (-4°F to $+104^{\circ}\text{F}$), typically $\pm 0.3^{\circ}\text{C}$ (0.6°F). Better than $\pm 0.8^{\circ}\text{C}$ ($\pm 1.4^{\circ}\text{F}$) for -40°C to -20°C (-40°F to -4°F), typically $\pm 0.5^{\circ}\text{C}$ (0.9°F). Better than $\pm 0.8^{\circ}\text{C}$ ($\pm 1.4^{\circ}\text{F}$) for $+40^{\circ}\text{C}$ to $+70^{\circ}\text{C}$ ($+104^{\circ}\text{F}$ to $+158^{\circ}\text{F}$), typically $\pm 0.7^{\circ}\text{C}$ (1.3°F). Better than $\pm 1.2^{\circ}\text{C}$ ($\pm 2.2^{\circ}\text{F}$) for $+70^{\circ}\text{C}$ to $+99^{\circ}\text{C}$ ($+158^{\circ}\text{F}$ to $+210^{\circ}\text{F}$), typically $\pm 1^{\circ}\text{C}$ (1.8°F). <i>Actual performance is typically much better than the rated values. Accuracy figures can be improved by recalibration.</i> <i>When used with the CP110 Smart Probe refer to CP110 data sheet for accuracy reading.</i>
Rated Temperature Reading Resolution	0.1°C (0.2°F) for measurements -40°C to $+50^{\circ}\text{C}$ (-40°F to $+122^{\circ}\text{F}$) 0.2°C (0.4°F) for measurements $+50^{\circ}\text{C}$ to $+70^{\circ}\text{C}$ ($+122^{\circ}\text{F}$ to $+158^{\circ}\text{F}$) 0.3°C (0.5°F) for measurements $+70^{\circ}\text{C}$ to $+80^{\circ}\text{C}$ ($+158^{\circ}\text{F}$ to $+176^{\circ}\text{F}$) 0.4°C-0.6°C (0.7°F to 1°F) for measurements $+80^{\circ}\text{C}$ to $+99^{\circ}\text{C}$ ($+176^{\circ}\text{F}$ to $+210^{\circ}\text{F}$) <i>LogTag Analyzer[®] currently displays to one decimal place of °C or °F. The native resolution is what is stored in the logger.</i>
Recording Capacity	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.
Sampling Interval	Configurable from 30 seconds to hourly.
Logging Start Options	Push button start or specific date & time. Optional start delay of up to 18hours.
Recording Indication	State indicator "REC"
Download Time	Typically less than 10 seconds for full memory (15,905 readings), depending on computer or readout device used.
Environmental	IP61 (when vertically mounted or hung).
Power Source	3V CR2032 (LiMnO ₂) coin cell battery, user replaceable
Battery Life	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.
Real Time Clock	Built-in real time clock. Rated accuracy $\pm 25\text{ppm}$ @ 25°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).
Standard External Probe Cable Lengths	Standard: 1.5m (4'11"). Extended: 3 m (9'10") (recommended maximum).
Remote External Probe Type	PTFE (FDA food contact rated) coaxial.
Size	93mm(H) x 54.5mm(W) x 8.6mm(T).
Weight	41g without External Probe.
Case Material	Polycarbonate.

