LogTag Recorders

TRED30-16R 30 Day Display With External Probe

- Built-in audible alarm.

- New, easy to read LCD display with 30 day summary in calendar format.

- Up to 15,900 recordings - Enough memory for 66 days at 6 minute logging.

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

- Record inspections at the push of a button.

- Interchangeable External Probe with high quality gold plated connector.

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

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 display also shows the current temperature reading, the current time, recording status and battery status.

The alarm is trigged 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. The day marker will also appear if not already present. The alarm status indicator and audible alarm can be easily cleared, but the day marker remains to ensure a visible record of excursions is shown on the display. A simplified alarm clearance, stop & start procedure is available as an option.

Details of any excursions in the preceding 30 days can be checked directly by inspecting the statistics history on the recorder's display or in more detail by downloading the logged data via a standard LogTag® Interface cradle to LogTag® Analyzer operating software.

TRED30-16R Display

The normal recording display shows the current temperature reading, the time and the alarm day summary.

A visual alarm symbol is displayed if one or more of the configured alarm trigger conditions have been met. An alarm trigger condition can be a single reading above the upper or below the lower threshold values, a set of consecutive violating readings or an accumulation of violation readings encountered.
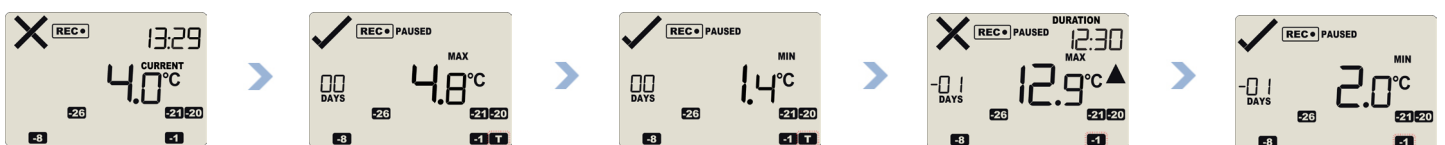
The display examples above show alarms recorded 1,8, 20, 21 and 26 days ago. Review each day's statistic by pressing the REVIEW button. Statistics include the maximum and minimum reading for each day, durations above or below preset thresholds and alarm status.

The recorder can be configured to suspend processing of readings for alarms and max/min statistics for a period of time after button press activity. This allows the user to review the current statistics or clear an alarm without causing a false alarm or statistic while handling the recorder.
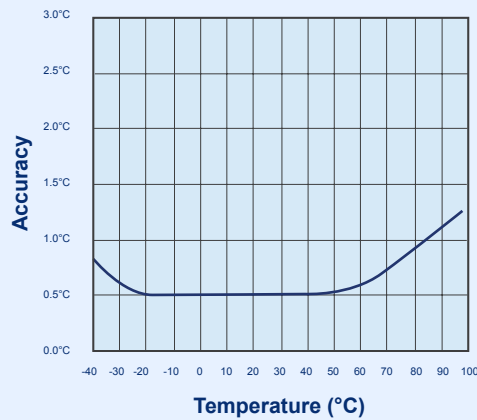
Accuracy / Resolution Charts

Accessories

Glycol Buffer

Wall Mount Bracket

Accepts all LogTag ST100 Probes

Interface Cradle

Rated Absolute Accuracy

Temperature (°C)

Rated Native Resolution

Temperature (°C)
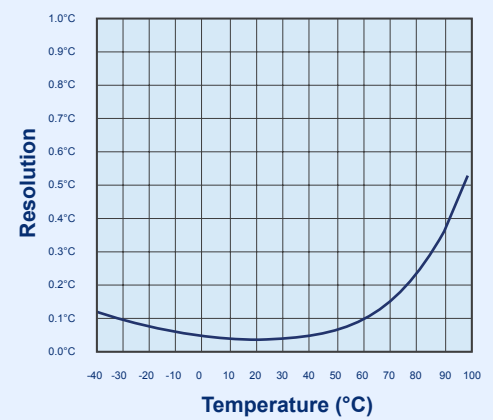
Product Specifications

Product Model	TRED30-16R (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 ±0.5°C (±0.9°F) for -20°C to +40°C (-4°F to +104°F), typically ±0.3°C (0.6°F). Better than ±0.8°C (±1.4°F) for -40°C to -20°C (-40°F to -4°F), typically ±0.5°C (0.9°F). Better than ±0.8°C (±1.4°F) for +40°C to +70°C (+104°F to +158°F), typically ±0.7°C (1.3°F). Better than ±1.2°C (±2.2°F) for +70°C to +99°C (+158°F to +210°F), typically ±1°C (1.8°F). *Actual performance is typically much better than the rated values. Please see the Rated Absolute Accuracy chart above.* *Accuracy figures can be improved by recalibration.*
Rated Temperature Reading Resolution	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-0.6°C (0.7°F to 1°F) for measurements +80°C to +99°C (+176°F to +210°F) *Please see the Rated Native Resolution chart above.* *LogTag Analyzer® currently displays to one decimal place of °C or °F. The native resolution is what is stored in the LogTag®.*
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 (LiMnO2) coin cell battery, user replaceable
Battery Life	Typically 1 year of operation. NOTE: Typical battery life assumes 6 minute logging, day statistics are 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 ±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).
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.