USB PDF EXTERNAL PROBE TEMPERATURE LOGGER

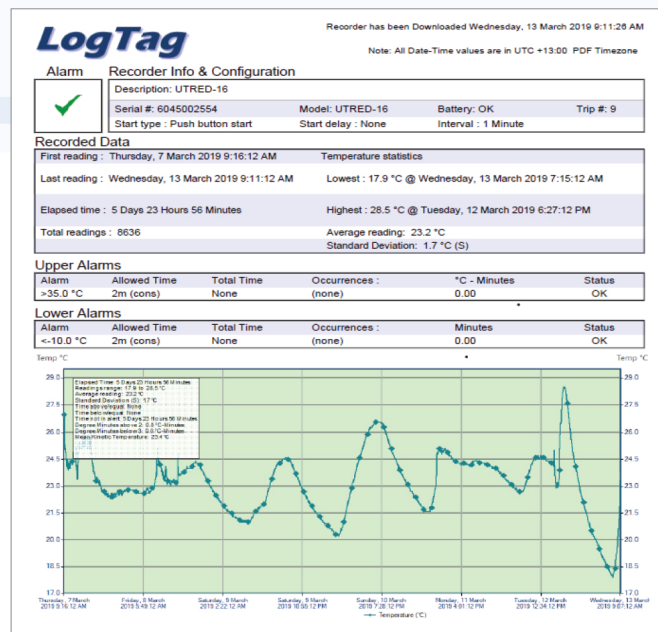## USB PDF External Probe Temperature Logger with Display **UTRED-16**

LogTag® UTRED-16 is an affordable & reliable USB temperature recorder, measures and stores real time temperature readings over a measurement range of -40°C to +99°C (-40°F to 210°F). The UTRED-16 comes with advanced temperature recorder features of 16,000 log memory, 2-year battery life and can be used with all external probes from the ST100 range, and the extension cable. It complies with relevant international standards for temperature monitoring devices, such as FCC, CE, IC and RCM.

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

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

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

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

- Cost effective multi-use format with a two-year fixed battery life.

- Ideal for multi-stage distribution channels involving bulk through to "last-mile" stages.

- Measure and store up to 16,000 time/temperature readings – enough for 168 days at 15 minute logging.

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LogTag Recorders

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

- Accessories include ST100 external probes and the extension cable, wall mount bracket and glycol buffer.

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

Automatic PDF Report

The UTRED-16 connects to a computer USB port for easy configuration by the user for a wide range of recording and alert conditions.

Upon download, it automatically generates a fully detailed PDF report with the option to download the data using the freely available LogTag® Analyzer software and to comply with FDA CFR21 Part 11.

Product Model	UTRED-16F (Fixed Battery).
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	0°C to +40°C (32°F to +104°F).
Rated Temperature Reading Resolution	Better than 0.1°C or 0.1°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).
Recording Capacity	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.
Sampling Interval	Configurable from 30 seconds to 18 hours.
Logging Start Options	Push button start or specific date & time. Optional start delay of up to 72 hours.
Recording Indication	"REC" symbol on LCD
Alarms	Three configurable upper and three configurable lower alarms.
Logging Start Options	Push button start or specific date & time. Optional start delay.
Download Time	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)
Environmental	IP61 (when vertically mounted or hung with USB dust-cap in place).
Power Source	CR2450 fixed, non-replaceable battery.
Battery Life	Shelf life of up to two years before first use. Two year battery life after initial shelf life.
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).
Connection Interface	USB 2.0, A-type plug.
Software	PDF Reader, LogTag® Analyzer 3.1.9 or higher.
PDF Report	One page report with trip and alarm summary. Multi-page report with list of readings, including date and time.
Size	93mm(H) x 54.5mm(W) x 8.6mm(T) including protective USB cap.
Weight	39g.
Case Material	Polycarbonate.