

# DUAL-CHANNEL TEMPERATURE LOGGER



**LogTag**®

**UTRED30-16**

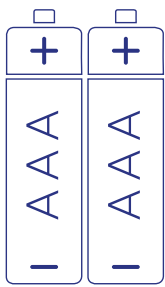
Dual-Channel 30 Day Display Logger



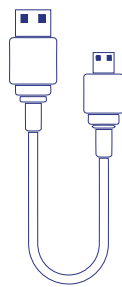
The LogTag® UTRED30-16 Temperature Recorder measures and stores up to a total 32,000 temperature readings, 16,000 readings per channel. The logger supports the ST100 probe and can be used on one or both channels if required.

It features a large easy-to-read display and is designed to show 'at a glance' if temperature excursions have occurred during the current day and up to the previous 29 days. If temperature readings are outside pre-set alarm limits, it is indicated by a large X on the display and, if configured, the audible alarm will sound.

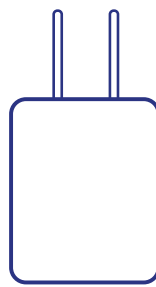
## Accessories



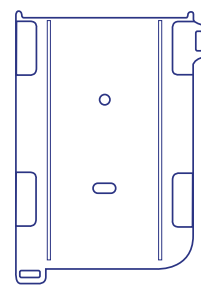
2x AAA Batteries  
Not Included



USB Cable  
Included



AC Adapter<sup>^</sup>  
Included



UTRED/UTREL30  
Wall Mount  
Not Included



Glycol Buffer  
Not Included



Socket Cover\*  
Included (Optional to use)



External Probe\*\*  
Not Included. (Required)

Compatible probes below:

|               |  |
|---------------|--|
| <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 probe).                         |
| <b>STX50</b>  | 5 Meter extension cable for ST10/ST100 probes. |

<sup>^</sup>US and EU adapter only

\*Optional to insert inside an unused Channel port

\*\*Hot swappable external sensor probes.

# Features

---



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



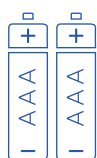
Two socket external probe with auto channel swap function.



Audible alarm and flashing red LED signals a temperature alarm.



Check and reset Min-Max temperature reading at any time.



Can be powered by 2x AAA batteries (user replaceable) if not external powered.



View alarm status for up to 30 days at a glance.



Second battery backup via a coin cell to ensure no data is lost.



Measure and store up to 16,000 readings for each channel– enough for 67 days at 6 minute logging.



Download data via LogTag Analyzer or as a PDF (no software required).



Inspections can be recorded at the push of a button.

# Applications



Bio Science



Food Science



Cold Room



Blood banks



Bio-Pharma / Bio Technology



Pharmaceutical & Vaccines



Bio Storage & logistics



Life Sciences

# Specifications

|   |   |
|---|---|
| <b>Product Model</b>                        | UTRED30-16.   |
| <b>External Sensor Measurement Range</b>    | -40°C to +99°C. (-40°F to 210°F).   |
| <b>Operating Temperature Range</b>          | -30°C to +60°C<br>0 – 99 % RH (non-condensing)  |
| <b>Storage Temperature Range</b>            | -10°C to +40°C (32°F to +104°F).  |
| <b>Rated Temperature Reading Resolution</b> | Better than 0.1°C (0.2°F) for -30°C to +60°C (-22°F to +140°F).<br>Better than 0.2°C (0.4°F) for -40°C to -30°C (-40°F to -22°F).<br>Better than 0.5°C (0.9°F) for +60°C to +99°C (+140°F to +210°F).<br>LogTag Analyzer currently displays to one decimal place of °C or °F. The native resolution is what is stored in the LogTag®.   |
| <b>Sensor Reaction Time</b>                 | Typically less than 2 minutes(T90) in moving air (1m/s) for ST100S type   |
| <b>Rated Temperature Reading Accuracy</b>   | 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).<br>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).<br>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).<br>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). |
| <b>Probe Connectivity</b>                   | Up to 2   |
| <b>Probe Compatibility</b>                  | All ST100 precision thermistor external probes can be interchangeably connected to the UTRED30-16.<br>Please refer to the Accessories section for compatible External Probes. Different probe models can be used for each channel. Not compatible with ST10 sensors.  |
| <b>Recording Capacity</b>                   | 32,000 total log memory. Provides 16,000 temperature readings per channel.<br>Day summary statistics memory (for display on LCD): up to 30 days of Min/Max/duration and alarm trigger statistics.   |
| <b>Sampling Interval</b>                    | Configurable from 30 seconds to 18 hours. (Typically 5 minute logging)  |
| <b>Alarms</b>                               | Up to 6 individually configurable alarms for each channel.<br>Possible to set alarms separately for Channel 1 and Channel 2.  |
| <b>Logging Start Options</b>                | Push button start or specific date & time. Optional start delay.  |
| <b>Download Time</b>                        | Typically with full memory (32,000 readings) in less than 20 seconds.   |
| <b>Environmental</b>                        | IP61 (when vertically mounted or hung with USB dust-cap in place).  |
| <b>Power Source</b>                         | 5V via micro USB socket or 2 x 1.5V AAA batteries. CR2032 LiMnO <sub>2</sub> coin cell (backup logging function only).  |
| <b>Battery Life</b>                         | AAA battery up to 12 months - if unit is operated without power supply.   |
| <b>Real Time Clock</b>                      | Built-in real time clock.<br>Typical accuracy ±25ppm @ 25°C (equivalent to 2.5 seconds/day).<br>Rated temperature coefficient is -0.034 ±0.006ppm/°C (i.e typically +/- 0.00294 seconds/day/°C).  |
| <b>Standard Remote Probe Cable Lengths</b>  | Standard: 1.5m (4'11").<br>Extended: 3m (9'10") (recommended maximum).  |
| <b>Remote Probe Cable Type</b>              | PTFE (FDA food contact rated) coaxial.  |
| <b>Connection Interface</b>                 | USB 2.0 / Micro USB Socket.   |
| <b>Size</b>                                 | 141mm(H) x 72mm(W) x 18mm(T).   |
| <b>Weight</b>                               | 156g with AAA batteries, (132g – excluding probe and AAA batteries).  |
| <b>Case Material</b>                        | Polycarbonate.  |

