

# DUAL-CHANNEL LOW TEMPERATURE LOGGER



**LogTag**®

**UTREL30-16**  
Dual-Channel 30 Day  
Low Temperature Logger

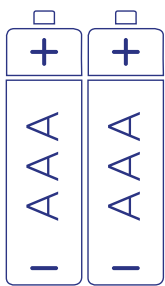


The LogTag® UTREL30-16 Dual-Channel Temperature Recorder measures and stores up to 32,000 temperature readings.

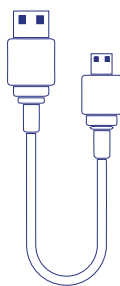
It features a large easy-to-read display and is designed to show 'at a glance' if temperature excursions have occurred during the current day and up to the previous 29 days.

The alarm is triggered if temperature readings are outside pre-set alarm limits which is indicated by a large X on the display and, if configured, the audible alarm will sound.

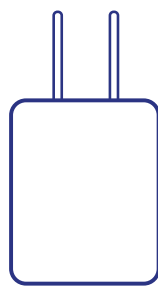
# Accessories



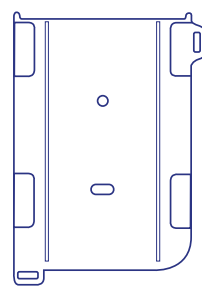
**2x AAA Batteries**  
Not Included



**USB Cable**  
Included



**AC Adapter<sup>^</sup>**  
Included



**Wall Mount**  
Not Included



**Buffer assembly**  
Not Included  
(Silica sand recommended for temperatures below -40°C)



**Socket Cover<sup>\*</sup>**  
Included



**External Probe<sup>\*\*</sup>**  
Not Included (Required).

### Compatible probes below:

ST10S Probes are available with a 0.5m, 1.5m or 3m cable  
ST10M Probes are available with a 1.5m or 3m cable  
E.g. ST10M-15 for 1.5m or ST10M-30 for 3m cable

|              |  |
|--------------|--|
| <b>ST10S</b> | 22mm tip length, ø5mm (Not suitable for use with buffer) |
| <b>ST10M</b> | 65mm tip length, ø5mm.                                   |
| <b>STX50</b> | 5 Meter extension cable for ST10/ST100 sensors.          |

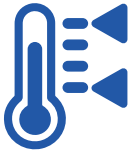
<sup>^</sup>US and EU adapter only

<sup>\*</sup>Optional to insert inside an unused Channel port

<sup>\*\*</sup>Hot swappable external sensor probes

# Features

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



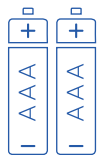
Two socket external probe with auto channel swap function.



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.



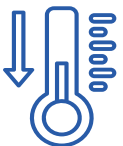
Measure and store up to 16,000 readings for each channel – enough for 67 days at 6 minute logging.



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



Inspections can be recorded at the push of a button.



Records temperatures from +40°C to as low as -90°C

# Applications



Pharmaceuticals



Bio Storage



Cold Room



Vaccine Transport & Storage



Clinic

# Specifications

|   |  |
|---|--|
| <b>Product Model</b>                        | UTREL30-16.  |
| <b>External 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).<br>0 – 99 % RH (non-condensing)  |
| <b>Storage Temperature Range</b>            | 0°C to +40°C (32°F to +104°F).   |
| <b>Rated Temperature Reading Resolution</b> | Better than 0.1°C (0.2°F) for measurements -80°C to 10°C (-112°F to 50°F)<br>Better than 0.2°C (0.4°F) for measurements 10°C to 20°C (50°F to 68°F) and -90°C to -80°C (-130°F to -112°F)<br>Better than 0.3°C (0.5°F) for measurements 20°C to 30°C (68°F to 86°F)<br>Better than 0.5°C (0.9°F) for measurements 30°C to 40°C (86°F to 104°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 ST10S type probe.  |
| <b>Rated Temperature Reading Accuracy</b>   | Better than ±0.5°C for -20°C to +10°C (-4°F to 50°F)<br>Better than ±0.7°C for -50°C to -20°C (-58°F to -4°F) and +10°C to +30°C (50°F to 86°F)<br>Better than ±1°C for -80°C to -50°C (-112°F to -58°F) and +30°C to +40°C (86°F to 104°F)<br>Better than ±1.8°C for -90°C to -80°C (-130°F to -112°F)  |
| <b>Probe Connectivity</b>                   | Up to 2  |
| <b>Probe Compatibility</b>                  | All ST10 precision thermistor external probes can be interchangeably connected to the UTREL30-16.<br>Please refer to the Accessories section for compatible External Probes. Different probe models can be used for each channel. Not compatible with ST100 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 (with configurable start delay from 1 minute to 72 hours) or specific date & time.   |
| <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 LiMnO2 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.   |

