

# DUAL-CHANNEL LOW TEMPERATURE LOGGER



**LogTag**®

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

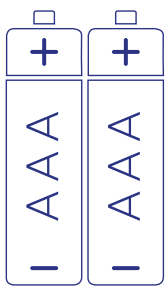


The LogTag® UTREL30-16 Dual-Channel Temperature Recorder measures and stores up to 32,000 temperature readings.

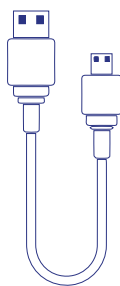
It features a large easy-to-read display and is designed to show 'at a glance' if temperature excursions have occurred during the current day and up to the previous 29 days.

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.

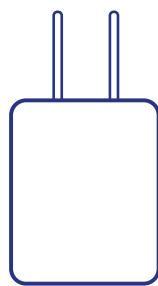
## Accessories



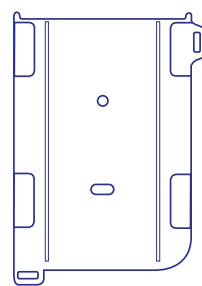
2x AAA Batteries  
Not Included



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\*  
Included



External Probe\*\*  
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

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

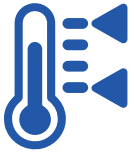
<sup>^</sup>US and EU adapter only

\*Optional to insert inside an unused Channel port

\*\*Hot swappable external sensor probes

# Features

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



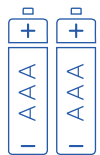
Two socket external probe with auto channel swap function.



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.



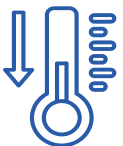
Measure and store up to 16,000 readings for each channel – enough for 67 days at 6 minute logging.



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). 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) 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) Better than 0.3°C (0.5°F) for measurements 20°C to 30°C (68°F to 86°F) Better than 0.5°C (0.9°F) for measurements 30°C to 40°C (86°F to 104°F) 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) 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) 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) 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. 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. 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. 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. Typical 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).
<b>Standard Remote Probe Cable Lengths</b>	Standard: 1.5m (4'11"). 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.

