



UTRID-16 Multi-Use Temperature Recorder

- Display showing temperature and alarm status of up to six alarms.
- Can be connected to any computer with a USB port. No docking station 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 user replaceable battery.
- Ideal for multi-stage distribution channels involving bulk through to “last-mile” stages.

The LogTag UTRID-16 provides a display to allow immediate viewing of current and past temperature and alarm statistics as well as the facility to create a detailed PDF report without need for extra accessories and proprietary software.

The display shows recording status, current temperature, alarm status of up to six user-configurable alarms and duration of any temperature excursions.

When the UTRID-16 is connected to a computer using the integrated USB plug, a detailed PDF report of the recorded temperature data and alarms can be automatically generated.

For more detailed data analysis, the UTRID-16 also creates an encrypted data file compatible with LogTag Analyzer® operating software and data management options.



UTRID-16 Display

The normal recording screen shows the current temperature reading, the time and an alarm marker if the current reading is outside one of the alarm thresholds.



Configuration with companion software LogTag Analyzer allows setting threshold values and temperature units on display and PDF. Here the unit is set to show temperature values in Celsius.



A visual alarm **X** 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, or a set of consecutive or accumulative readings outside the threshold values.



The statistical data can be reviewed by pressing the STOP/Review button. Statistics include the maximum and minimum reading for each day and the duration above or below preset thresholds. This screen shows the time the temperature was below 2°C.

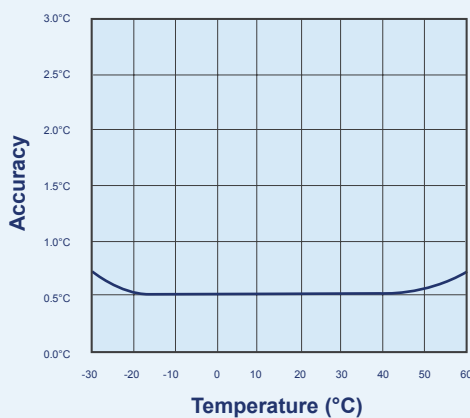


The recorder can be configured to suspend processing of readings for alarms and max/min statistics for a period of time after either button is pressed. This allows the user to review the current statistics or clear an alarm without causing a false alarm or statistic while handling the recorder.

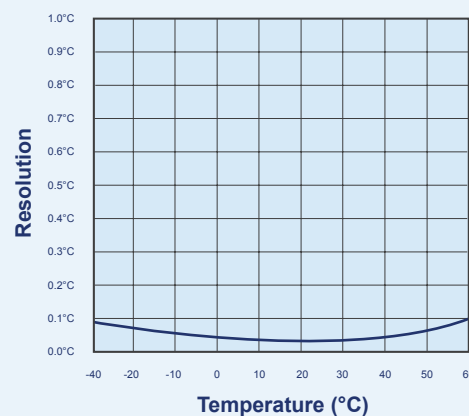


Accuracy / Resolution Charts

Rated Absolute Accuracy



Rated Native Resolution



Product Specifications

Product Model	UTRID-16
Sensor Measurement Range	-25°C to +60°C (-13°F to +140°F).
Operating Temperature Range	-25°C to +60°C (-13°F to +140°F).
Storage Temperature Range	0°C to +40°C (-32°F to +104°F).
Rated Temperature Reading Accuracy	Better than $\pm 0.5^{\circ}\text{C}$ ($\pm 0.9^{\circ}\text{F}$) for -20°C to $+40^{\circ}\text{C}$ (-4°F to $+104^{\circ}\text{F}$). Better than $\pm 0.7^{\circ}\text{C}$ ($\pm 1.3^{\circ}\text{F}$) for -25°C to -20°C (-13°F to -4°F) & $+40^{\circ}\text{C}$ to $+60^{\circ}\text{C}$ ($+104^{\circ}\text{F}$ to $+140^{\circ}\text{F}$). <i>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.</i>
Rated Temperature Reading Resolution	0.1°C (0.1°F). <i>Please see the Rated Native Resolution chart below. LogTag Analyzer® currently displays to one decimal place of °C or °F.</i>
Sensor Reaction Time	Typically less than 7 minutes (T90) in moving air (1m/s) in EN12830:1999.
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.
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	IEC 60529: IP64 with USB cap fitted.
Power Source	3V CR2032 Battery (User replaceable).
Battery Life	Typically 1 year of operation with normal use (6 minute logging, statistics reviewed on the display no more than once daily for no longer than 30 seconds each time, download data monthly) provided recorder is kept within the storage temperature range when not in use. The battery low symbol will appear on the LCD if the UTRID-16 has a low battery.
Real Time Clock	Built-in real time clock. Rated accuracy $\pm 25\text{ppm}$ @ 25°C (equivalent to 2.5 seconds/day). Rated temperature coefficient is $-0.034 \pm 0.006\text{ppm}/^{\circ}\text{C}$ (i.e typically ± 0.00294 seconds/day/°C).
Connection Interface	USB 2.0, A-type plug.
Software	PDF Reader, LogTag® Analyzer 2.8 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.

Accessories



Protective Enclosure



Wall Mount Bracket

