DATASHEET

UTREL-16F

LogTag

Distributed by AKRIBIS

MULTI-USE LOW TEMPERATURE LOGGER

LogTag®

UTREL-16F

USB External Probe Low Temperature Logger with Display

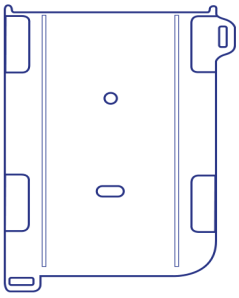
AKRIBIS · www.akribis.info · contacto@akribis.info

The LogTag® UTREL-16F is an affordable & reliable USB low temperature recorder, measures and stores real time temperature readings over a measurement range of -90°C to +40°C (-130°F to +104°F).

The LogTag® UTREL-16F comes with advanced temperature recorder features of a 16,000 log memory and can be used with the ST10 external probes range. It complies with relevant international standards for temperature monitoring devices, such as FCC, CE, IC and RCM.

Accessories

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



Wall Mount
Not Included

External Probe
Not Included (Required).

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.

Compatible probes below:

ST10S	22mm tip length, ø5mm.
ST10M	65mm tip length, ø5mm.
STX50	5 Meter extension cable for ST10/ST100 sensors.

Features

Records temperature from -90°C to +40°C.

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

Up to 16,000 recordings - enough for 168 days at 15 minute logging.

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

Read current temperature and alarm condition at a glance.

Fixed battery of 1 year storage, 2 years of normal use.

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

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

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

Applications

Vaccine & Pharmaceuticals

Chemicals

Healthcare

Cold Storage

Specifications

Product Model	UTREL-16F.
Sensor Measurement Range	-90°C to +40°C (-130°F to +104°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	0.1°C (0.2°F) for measurements -80°C to 10°C (-112°F to 50°F) 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) 0.3°C (0.5°F) for measurements 20°C to 30°C (68°F to 86°F) 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®.
Rated Temperature Reading Accuracy	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)
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	IP61 (when vertically mounted or hung with USB dust-cap in place).
Power Source	CR2450 3V $LiMnO_2$ (Fixed battery).
Battery Life	Storage life of 1 year before 'start' (if it is hibernation mode), followed by: 2 years of normal use (based on 15 minute logging, download data monthly).
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.

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