

## UHADO-16

### Multi-Use USB/PDF

### Temperature & Humidity

### Logger with Display

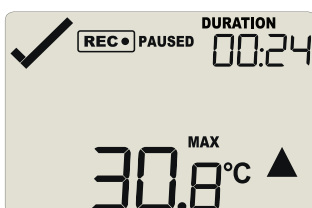
- Record and display Temperature & Humidity readings simultaneously
- Up to 16,000 sets of recordings - enough for the longest trip
- Real time clock provides date/time stamp for every recording
- USB micro-port for direct connection to a computer
- Automatic generation of a PDF report without special software
- Supports fast download using standard and Wifi LogTag® Interface cradles
- User configuration for alarm setting, logging interval, trip duration etc.
- In transit inspections can be recorded at the push of a button
- User replaceable CR2032 coin cell battery

The LogTag® UHADO-16 Temperature & Humidity logger measures and stores up to 16,000 sets of high resolution humidity and temperature readings over a measurement range of 0~100% RH and -30°C to +70°C (-22°F to +158°F).

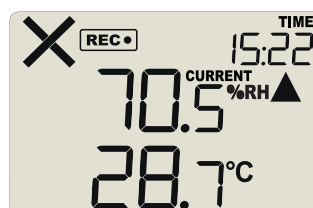
The display shows current Temperature & Humidity readings, Alarm status and Recording status. By pushing the “Review” button, the user can check minimum and maximum Temperature & Humidity readings for the trip, and the duration of any Temperature & Humidity recordings in the Alarm range.

The UHADO-16 can be connected directly to a computer for configuration and data download using a standard Micro-USB to USB cable\*. The user has the option of automatically generating a PDF report on download. In addition, the UHADO-16 is fitted with three contact pins, meaning that it can be used with the LogTag® LTI-USB, LTI-HID and LTI-WiFi Interface Cradles. Data can be processed using readily available LogTag® Analyzer and LogTag® Online cloud.

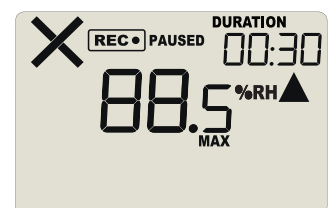
\*cable not included



Temp Max review



Recording over threshold,  
alarm



RH Max review

### Accessories



Wall Mount Bracket

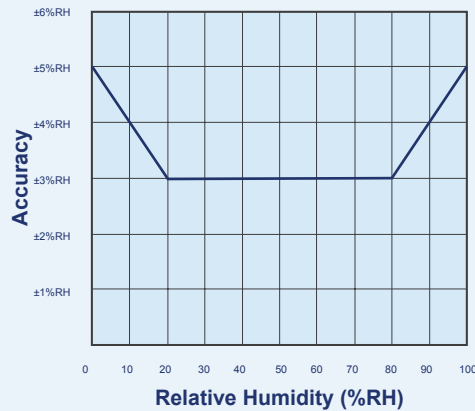


LTI-HID

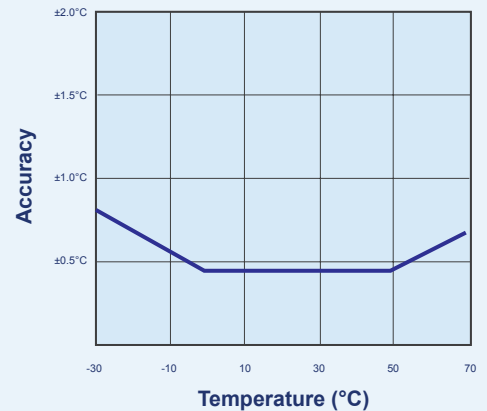


LTI-WiFi

### Rated Relative Humidity Reading Accuracy @ 25°C



### Rated Temperature Reading Accuracy



## Product Specifications

<b>Product Model</b>	UHADO-16.
<b>Sensor Measurement Range</b>	-30°C to +70°C (-22°F to +158°F).
<b>Operating Temperature Range</b>	-30°C to +70°C (-22°F to +158°F).
<b>Storage Temperature Range</b>	0°C to +40°C (+32°F to +104°F).
<b>Humidity Measurement Range</b>	0% RH to 100% RH, with limitations.
<b>Humidity Operating Range</b>	0% RH to 100% RH (non-condensing), with limitations.
<b>Rated Temperature Reading Accuracy</b>	Better than ±0.45°C (±0.8°F) for +0°C to +50°C (+32°F to +122°F), typically ±0.3°C (0.6°F). Better than ±0.8°C (±1.4°F) for +50°C to +80°C (+122°F to +176°F), typically ±0.5°C (0.9°F). Better than ±0.95°C (±1.7°F) for -40°C to +0°C (-40°F to +32°F), typically ±0.6°C (1.1°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>
<b>Rated Humidity Reading Accuracy</b>	Better than ±3%RH for 20%RH to 80%RH, typically ±2%RH. Better than ±5%RH for 0%RH to 20%RH, typically ±4%RH. Better than ±5%RH for 80%RH to 100%RH, typically ±4%RH. <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>
<b>Storage Humidity Range</b>	0-65%, non condensing.
<b>Humidity Resolution</b>	Better than 0.1% RH.
<b>Temperature Resolution</b>	Better than 0.1°C or 0.1°F
<b>Recording Capacity</b>	16,129 pairs of humidity and temperature readings 106 days @ 10min logging, 160 days @ 15min logging. Statistics memory for displaying maximum and minimum Temperature and RH values on the LCD.
<b>Sampling Interval</b>	Configurable from 30 seconds to several hours.
<b>Logging Start Options</b>	Push button start or specific date & time.
<b>Recording Indication</b>	State indicator "REC."
<b>Download Time</b>	Typically less than 10 seconds for full memory, depending on computer or readout device used.
<b>Environmental</b>	IP61 (when hung or mounted vertically).
<b>Power Source</b>	3V CR2032 Battery.
<b>Battery Life</b>	1 year of normal use (based on 15 minute logging, download data monthly). Replaceable battery.
<b>Real Time Clock</b>	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).
<b>Connection Interface</b>	Interface Cradle or USB 2.0 / Micro USB plug (plug not included).
<b>Software</b>	LogTag® Analyzer & LogTag® Online.
<b>Size</b>	93mm(H) x 54.5mm(W) x 8.6mm(T).
<b>Weight</b>	41g.
<b>Case Material</b>	Polycarbonate.

### Re-conditioning Procedure

Exposure of the internal sensor to chemical vapors may interfere with the internal sensor and cause inaccurate readings to be logged. In a clean environment, this will slowly rectify itself. However, exposure to extreme conditions or chemical vapors will require the following re-conditioning procedure to bring the internal sensor back to calibration state.

80°C (176°F) at <5%RH for 36 hours (baking) followed by 20-30°C (70-90°F) at >74%RH for 48 hours (re-hydration) High levels of pollutants may cause permanent damage to the internal sensor.

### Exposure to Chemicals

Chemical vapors may interfere with materials used for the humidity sensor. The diffusion of chemicals into the sensor's polymer may cause a shift in both offset and sensitivity. In a clean environment the contaminants will slowly outgas.

The reconditioning procedure described above will accelerate this process. High levels of pollutants may cause permanent damage to the humidity sensor's polymer.

