LogTag Recorders

HAXO-8 Humidity Temperature Recorder

The LogTag® HAXO-8 Humidity & Temperature Recorder measures and stores up to 8000 sets of high resolution humidity and temperature readings over a measurement range of 0 to 100%RH & -40°C to +85°C (-40°F to +185°F).

Enclosed in a robust and durable polycarbonate case - the HAXO-8 is equipped with a unique external temperature sensor arrangement providing fast reaction time to temperature change and a real time clock which provides date/time stamps for each temperature reading.

Using the LogTag Interface and LogTag's freely available companion software LogTag Analyzer, the LogTag is easily set-up for recording conditions including delayed start, sampling interval, number of readings, continuous or fixed number of readings and configuration of conditions to activate the ALERT indicator.

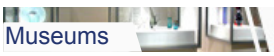
Readings are downloaded using LogTag Analyzer which provides facilities for charting, zooming, listing data statistics and allows exporting the data to other applications such as Excel.

The LogTag® HAXO-8 complies with the relevant international standards for temperature monitoring devices:- FCC, CE, C-TICK and RoHS. This demonstrates the quality and suitability of the LogTag® HAXO-8 for temperature monitoring applications where accuracy and consistency is required.

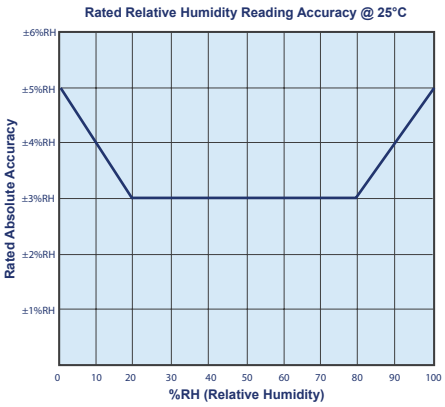
Product Highlights

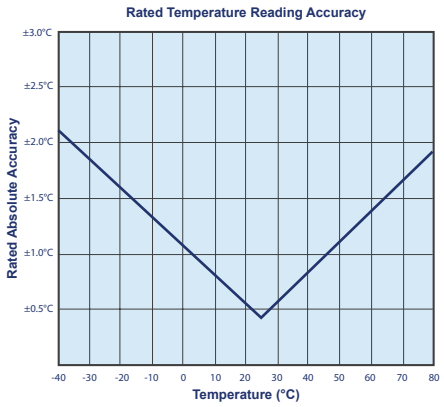
- A real time clock provides date/time stamps for each temperature reading.
- Push-to-start button with optional delay or a specific time & date.
- Comprehensive customisation options including alert settings, sample interval and trip duration.
- Robust and durable polycarbonate case with lug for secure mounting.
- Up to 8,000 recordings - enough for the longest trip.
- In-transit inspections can be recorded at the push of a button.
- Industry best download time - less than 5 seconds for fully memory.

Recommended Applications



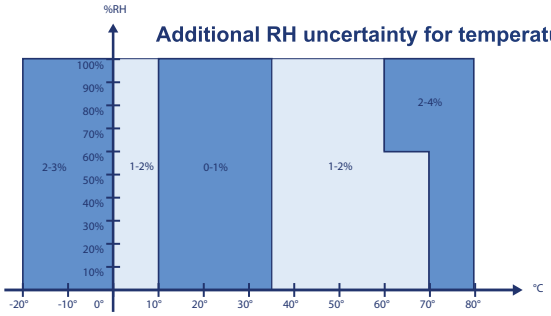
Accuracy/Resolution Charts





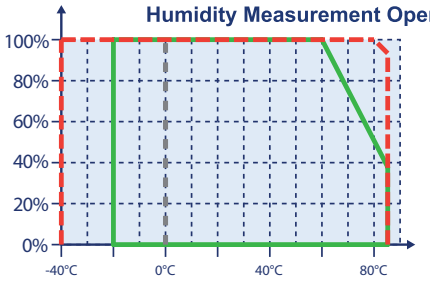
Specifications

Product Model	HAXO-8
Humidity Measurement Range	0 ~ 100%RH but with limitations as detailed in Humidity Measurement Operating and Storage conditions below.
Temperaturte Measurement Range	-40°C to +85°C (-40°F to +185°F)
Humidity Resolution	Better than 0.1%RH
Temperature Resolution	Better than 0.1°C or 0.1°F
Capacity	8000 pairs of humidity & temperature readings (32Kb memory)
Sampling Interval	Configurable from 30 seconds to several hours
Environmental	IP61 (when hung or mounted vertically)
Power Source	3V Lithium
Battery Life	2~3 years typical use
Size	86mm(H) x 54.5mm(W) x 8.6mm(T)
Weight	35g
Case Material	Polycarbonate



This graph shows the possible additional uncertainty in %RH compared to the accuracy specifications for temperatures different than 25°C for the standard factory calibration. The shown uncertainties may be positive or negative.

The performance can be improved by re-calibrating the product for %RH at the specific temperature of interest after which case this chart would no longer apply.



This chart shows the normal recommended operating range of the humidity sensor. Conditions outside the recommended range may temporarily offset the RH signal up to ±3 %RH.

After return to normal conditions it will slowly return towards calibration state by itself. See "Reconditioning Procedure" to accelerate this process. Prolonged exposure to extreme conditions may accelerate ageing.

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 reconditioning procedure to bring the internal sensorback 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 48hours (re-hydration)

High levels of pollutants may cause permanent damage to the internal sensor.

Accessories

Wall Mount Bracket

Our FREE LogTag Analyzer software provides an easy to use, powerful platform for configuring any LogTag recorder product before deployment and for data download & analysis when the recorder is retrieved.

LogTag's unique interface cradle design provides rapid & reliable LogTag data transfer.

Note: Users do not need to purchase more than one Interface Cradle per LogTag product.

designed for 21CFRPart11

FC CE

Pb RoHS COMPLIANT 2002/95/EC

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 to the left will accelerate this process. High levels of pollutants may cause permanent damage to the humidity sensor's polymer.