LogTag® HUMIDITY & TEMPERATURE RECORDER

Product code: HAXO-8
(Approximate actual size)

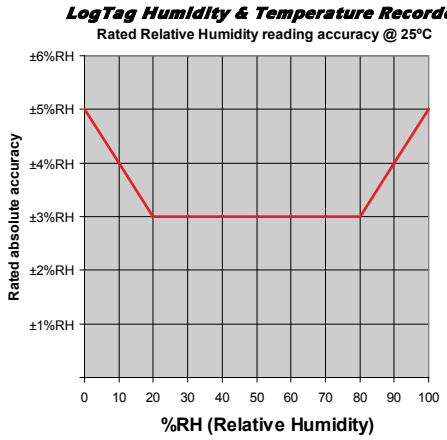
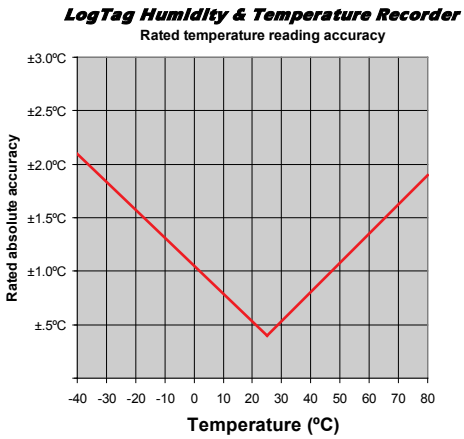
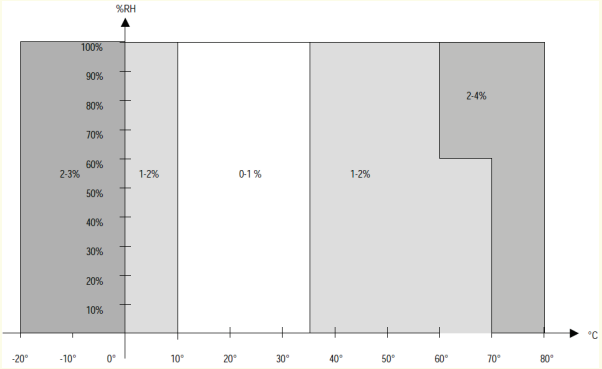
The LogTag Humidity & Temperature Recorder measures and stores up to 8000 sets of high resolution humidity and temperature readings over 0 to 100%RH & -40°C to +85°C (-40°F to +185°F) measurement ranges.

Using the LogTag Interface and LogTag's freely available companion software *LogTag Analyser* , 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 Analyser which provides facilities for charting, zooming, listing data statistics and allows exporting the data to other applications such as Excel.

Product Highlights

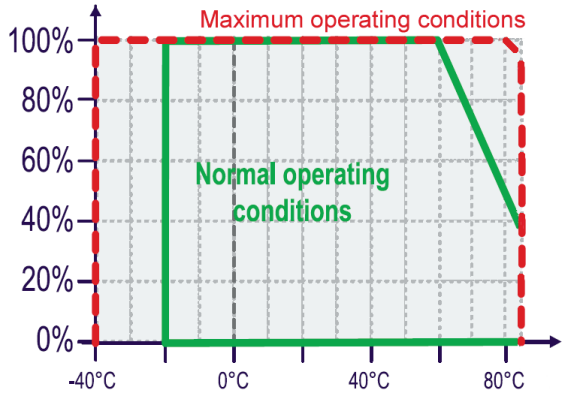
- ***Alert indicator*** – can be set for both humidity and temperature
- ***OK indicator*** indicates if still recording and if readings within configured limits
- ***Inspection mark*** in log by push button
- ***Push Button Logging start***
- ***Rapid Download!*** Takes only seconds to download recordings
- ***'Pre-Start' logging*** - Logtag can be configured to record *even if it has not been started.*
- ***High performance*** at low cost
- ***Credit card sized case*** – thin enough to be easily mailed "letter rate".
- ***Real time clock*** records time, humidity & temperature simultaneously
- ***Easy*** to use *LogTag Analyser s*oftware that runs on any PC configures LogTag for recording then downloads resulting data for analysis. Data can also be exported to formats compatible with other applications such as Excel
- ***Fine resolution of measurement*** – 0.1%RH & 0.1°C/°F
- Re-calibration to achieve higher accuracy possible
- Replaceable sensor air filter

LogTag HAXO-8 Technical Specifications

Part Order Code	HAXO-8
Humidity Measurement range	0 ~ 100%RH but with limitations as detailed in Humidity Measurement Operating and Storage conditions below
Temperature Measurement range	-40 ~ +85°C (-40 ~ +185°F)
Humidity Resolution	better than 0.1%RH
Temperature Resolution	better than 0.1°C or 0.1°F
Rated Humidity reading accuracy* 	**Rated Temperature reading accuracy*** 
Additional RH uncertainty for temperatures different than 25°C 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 this chart would no longer apply.	
Capacity	8000 pairs of humidity & temperature readings (32Kbytes memory)
Sampling frequency	adjustable, 30 sec to several hours
Download Time	Typically with full memory in less than 10 secs depending on computer or readout device used.
Environmental	IP61 (when hung or mounted vertically)
Power source	3V Lithium
Battery life	2~3 years typical use
Size	86mm(H)x54.5mm(W)x8.6mm(T)
Weight	35grams
Case Material	Polycarbonate

*Ex-factory values – relative humidity reading accuracy in particular may be affected by exposure to conditions outside recommended operating and storage conditions

Humidity Measurement Operating and Storage Conditions



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 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.

NOTE: INFORMATION & SPECIFICATIONS SUBJECT TO CHANGE
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