

HUMIDITY & TEMPERATURE MADE EASY



HAX0-8

Multi-Use Humidity & Temperature Logger

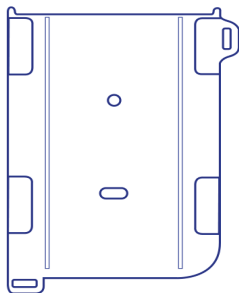
LogTag Recorders



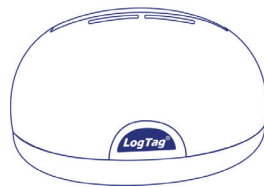
The LogTag® HAXO-8 Humidity & Temperature Recorder measures and stores up to 8000 sets of high resolution humidity and temperature readings.

The LogTag® HAXO-8 is equipped with a unique humidity & temperature sensor arrangement providing fast reaction time to humidity & temperature change and a real time clock which provides date/time stamps for each temperature reading.

Accessories



Wall Mount
Not Included



LTI-HID
Not Included



LTI-WiFi
Not Included

Features



Record and display Temperature & Humidity readings simultaneously.



Up to 8,000 sets of recordings - enough for the longest trip.



Real time clock provides date/time stamp for every recording.



Supports fast download using standard and Wifi LogTag® Interface cradles.



User configuration for alert settings, logging interval, trip duration etc.



In-transit inspections can be recorded at the push of a button.



Fixed battery of 1 year storage, followed by 2 – 3 years of normal use.

Applications



Laboratories



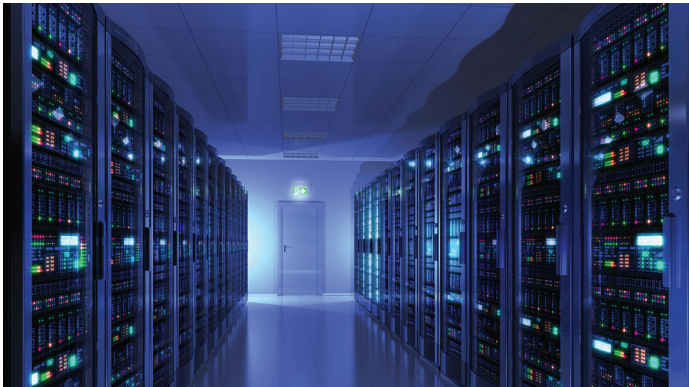
Agriculture



Warehousing



Cold Chain



Server Rooms



Farming

Specifications

Product Model	HAXO-8.
Sensor Measurement Range	-40°C to +85°C (-40°F to +185°F).
Operating Temperature Range	-40°C to +85°C (-40°F to +185°F).
Storage Temperature Range	0°C to +40°C (-32°F to +140°F).
Humidity Measurement Range	0% RH to 100% RH, with limitations.
Humidity Operating Range	0% RH to 100% RH (non-condensing), with limitations.
Rated Temperature Reading Accuracy	Better than $\pm 0.45^{\circ}\text{C}$ ($\pm 0.8^{\circ}\text{F}$) for $+0^{\circ}\text{C}$ to $+50^{\circ}\text{C}$ ($+32^{\circ}\text{F}$ to $+122^{\circ}\text{F}$), typically $\pm 0.3^{\circ}\text{C}$ (0.6°F). Better than $\pm 0.8^{\circ}\text{C}$ ($\pm 1.4^{\circ}\text{F}$) for $+50^{\circ}\text{C}$ to $+80^{\circ}\text{C}$ ($+122^{\circ}\text{F}$ to $+176^{\circ}\text{F}$), typically $\pm 0.5^{\circ}\text{C}$ (0.9°F). Better than $\pm 0.95^{\circ}\text{C}$ ($\pm 1.7^{\circ}\text{F}$) for -40°C to $+0^{\circ}\text{C}$ (-40°F to $+32^{\circ}\text{F}$), typically $\pm 0.6^{\circ}\text{C}$ (1.1°F). <i>Actual performance is typically much better than the rated values. Accuracy figures can be improved by recalibration.</i>
Rated Humidity Reading Accuracy	Better than $\pm 3\%\text{RH}$ for $20\%\text{RH}$ to $80\%\text{RH}$, typically $\pm 2\%\text{RH}$. Better than $\pm 5\%\text{RH}$ for $0\%\text{RH}$ to $20\%\text{RH}$, typically $\pm 4\%\text{RH}$. Better than $\pm 5\%\text{RH}$ for $80\%\text{RH}$ to $100\%\text{RH}$, typically $\pm 4\%\text{RH}$. <i>Actual performance is typically much better than the rated values. Accuracy figures can be improved by recalibration.</i>
Storage Humidity Range	0-65%, non condensing.
Humidity Resolution	Better than 0.1% RH.
Temperature Resolution	Better than 0.1°C or 0.1°F
Recording Capacity	8,003 pairs of humidity and temperature readings 53 days @ 10min logging, 80 days @ 15min logging.
Sampling Interval	Configurable from 30 seconds to several hours.
Logging Start Options	Push button start or specific date & time. Optional start delay (30 seconds to 18 hours).
Recording Indication	Flashing 'OK' indicator / flashing 'ALERT' indicator.
Download Time	Typically less than 10 seconds for full memory, depending on computer or readout device used.
Environmental	IP61 (when hung or mounted vertically).
Power Source	3V LiMnO ₂ Battery (Fixed).
Battery Life	Fixed Battery. 1 year storage, followed by 2 – 3 years of normal use (based on 15 minute logging, download data monthly).
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/ $^{\circ}\text{C}$).
Connection Interface	Interface Cradle
Software	LogTag® Analyzer
Size	86mm(H) x 54.5mm(W) x 8.6mm(T).
Weight	34g.
Case Material	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 reconditioning procedure to bring the internal sensor back to calibration state. 80°C (176°F) at $<5\%\text{RH}$ for 36 hours (baking) followed by $20\text{--}30^{\circ}\text{C}$ ($70\text{--}90^{\circ}\text{F}$) at $>74\%\text{RH}$ for 48 hours (re-hydration) High levels of pollutants may cause permanent damage to the internal sensor.

Chemical vapors or pollutants

Exposure of the internal sensor to chemical vapors or high levels of pollutants may interfere with the internal sensor and cause a shift in both offset and sensitivity, resulting in inaccurate readings to be logged. High levels of pollutants may cause permanent damage to the humidity sensor's polymer.