

# HUMIDITY & TEMPERATURE MADE EASY



## HAX0-8

Multi-Use Humidity & Temperature Logger

# *LogTag Recorders*



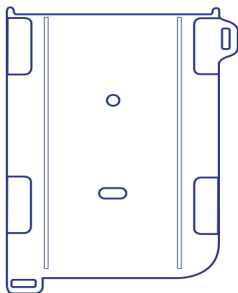


The LogTag® HAXO-8 Humidity & Temperature Recorder measures and stores up to 8000 sets of high resolution humidity and temperature readings.

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

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*Wall Mount*  
Not Included



*LTI-HID*  
Not Included



*LTI-WiFi*  
Not Included

# Features

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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

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Laboratories



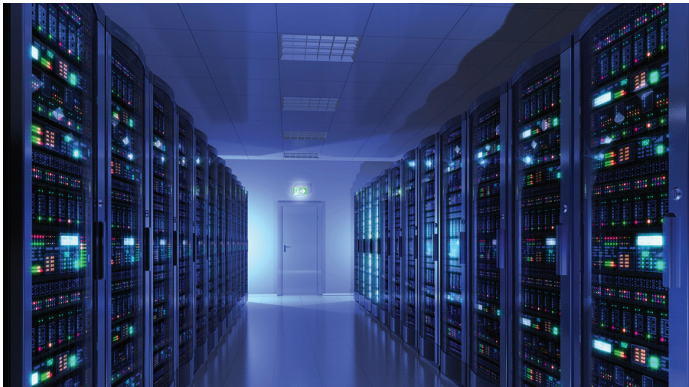
Agriculture



Warehousing



Cold Chain



Server Rooms



Farming

# Specifications

<b>Product Model</b>	HAXO-8.
<b>Sensor Measurement Range</b>	-40°C to +85°C (-40°F to +185°F).
<b>Operating Temperature Range</b>	-40°C to +85°C (-40°F to +185°F).
<b>Storage Temperature Range</b>	0°C to +40°C (-32°F to +140°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 $\pm 0.45^{\circ}\text{C}$ ( $\pm 0.8^{\circ}\text{F}$ ) for $+0^{\circ}\text{C}$ to $+50^{\circ}\text{C}$ ( $+32^{\circ}\text{F}$ to $+122^{\circ}\text{F}$ ), typically $\pm 0.3^{\circ}\text{C}$ ( $0.6^{\circ}\text{F}$ ). 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 $\pm 0.5^{\circ}\text{C}$ ( $0.9^{\circ}\text{F}$ ). Better than $\pm 0.95^{\circ}\text{C}$ ( $\pm 1.7^{\circ}\text{F}$ ) for $-40^{\circ}\text{C}$ to $+0^{\circ}\text{C}$ ( $-40^{\circ}\text{F}$ to $+32^{\circ}\text{F}$ ), typically $\pm 0.6^{\circ}\text{C}$ ( $1.1^{\circ}\text{F}$ ). <i>Actual performance is typically much better than the rated values. Accuracy figures can be improved by recalibration.</i>
<b>Rated Humidity Reading Accuracy</b>	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>
<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>	8,003 pairs of humidity and temperature readings 53 days @ 10min logging, 80 days @ 15min logging.
<b>Sampling Interval</b>	Configurable from 30 seconds to several hours.
<b>Logging Start Options</b>	Push button start or specific date & time. Optional start delay (30 seconds to 18 hours).
<b>Recording Indication</b>	Flashing 'OK' indicator / flashing 'ALERT' indicator.
<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 LiMnO <sub>2</sub> Battery (Fixed).
<b>Battery Life</b>	Fixed Battery. 1 year storage, followed by 2 – 3 years of normal use (based on 15 minute logging, download data monthly).
<b>Real Time Clock</b>	Built-in real time clock. Rated accuracy $\pm 25\text{ppm}$ @ $25^{\circ}\text{C}$ (equivalent to 2.5 seconds/day). Rated temperature coefficient is $-0.034 \pm 0.006\text{ppm}/^{\circ}\text{C}$ (i.e typically $\pm 0.00294$ seconds/day/ $^{\circ}\text{C}$ ).
<b>Connection Interface</b>	Interface Cradle
<b>Software</b>	LogTag® Analyzer
<b>Size</b>	86mm(H) x 54.5mm(W) x 8.6mm(T).
<b>Weight</b>	34g.
<b>Case Material</b>	Polycarbonate.



## 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.

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