



HOBO MX2301A Wireless Temperature and Humidity Data Logger - Optional Remote Monitoring

Product Images



Short Description

The HOBO MX2301A is a weatherproof data logger with built-in temperature and relative humidity sensors. View current data in real time with the free HOBOconnect app, and near real-time cloud-based monitoring with the optional [MX Internet Gateway](#).

Description

Key Features

- View current data in real time with the free HOBObconnect app, and near real-time cloud-based monitoring with the optional [MX Internet Gateway](#)
- Visual alerts on the data logger and app
- Receive alert notifications for out-of-range conditions via email or SMS text message with the optional MX Gateway
- Compact, weatherproof housing with built-in mounting system
- Share downloaded data easily from your mobile device
- Accuracy: +/- 0.2C° and +/- 2.5% RH
- Bluetooth Low Energy enables easy, fast set up.



Additional Information

Country of Manufacture	United States
Brand	Onset HOBO
Measurements	Dew Point, Humidity, Temperature
Typical applications	Environmental (Indoor), Environmental (Outdoor), Field Research, Food Safety
Onset Product Series	MX2300
Explanation	Features: <ul style="list-style-type: none">• Convenient wireless setup and download via Bluetooth Low Energy (100-foot range)• Retrieve data in hard-to-reach locations• Visual alarms alert you to out-of-range conditions• Compact, weatherproof housing with built-in mounting• View current data in real time with Onset's free HOBOnnect app• Share downloaded data easily from your mobile device• Accuracy: +/- 0.2C° and +/- 2.5% RH
Power	Battery only

Temperature Sensor:

Range	MX2301A and MX2305 internal sensors: -40 to 70°C (-40 to 158°F) MX2302A external temperature sensor: -40 to 70°C (-40 to 158°F) MX2303 and MX2304 external sensors: -40 to 100°C (-40 to 212°F), with tip and cable immersion in fresh water up to 50°C (122°F) for one year
Accuracy	±0.25°C from -40 to 0°C (±0.45 from -40 to 32°F) ±0.2°C from 0 to 70°C (±0.36 from 32 to 158°F) ±0.25°C from 70 to 100°C (±0.45 from 158 to 212°F), MX2303 and MX2304 only
Resolution	0.04°C (0.072°F)
Drift	<0.01°C (0.018°F) per year

RH Sensor:

Range	0 to 100% RH, -40° to 70°C (-40° to 158°F); exposure to conditions below -20°C (-4°F) or above 95% RH may temporarily increase the maximum RH sensor error by an additional 1%
Accuracy	±2.5% from 10% to 90% (typical) to a maximum of ±3.5% including hysteresis at 25°C (77°F); below 10% RH and above 90% RH ±5% typical
Resolution	0.01%
Drift	<1% per year typical
Memory	128 KB (63,488 measurements, maximum)

Dimensions	Logger housing: 10.8 x 5.08 x 2.24 cm. External temperature sensor diameter: 0.53 cm. External temperature/RH sensor diameter: 1.17 cm. External sensor cable length: 2 m. Solar radiation shield bracket: 10.8 x 8.3 cm.
Batteries	2/3 AA 3.6 Volt lithium (included)
Power	Battery only

Optional Remote Cloud Access to Your Data	MX Gateway for HOBO MX Data Loggers (SKU: MXGTW1)
	HOBOLink Service Plan (One Year Subscription (SKU: SP-620)) - one required per MX Gateway
Temperature & Humidity Calibration Certificate	Temperature & Humidity Calibration @ 20°C and 50RH
	Temperature & Humidity Calibration (please specify measurement points required)