



# 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 HOBObconnect app, and near real-time cloud-based monitoring with the optional [MX Internet Gateway](#).

## Description

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### 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	<b>Features:</b> <ul style="list-style-type: none"><li>• Convenient wireless setup and download via Bluetooth Low Energy (100-foot range)</li><li>• Retrieve data in hard-to-reach locations</li><li>• Visual alarms alert you to out-of-range conditions</li><li>• Compact, weatherproof housing with built-in mounting</li><li>• View current data in real time with Onset's free HOBObconnect app</li><li>• Share downloaded data easily from your mobile device</li><li>• Accuracy: +/- 0.2C° and +/- 2.5% RH</li></ul>
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

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