



# HOBO MX2302A Wireless Temperature and Humidity Data Logger with External Sensor - Optional Remote Monitoring

## Product Images



## Short Description

This data logger from Onset is designed to withstand harsh indoor/outdoor conditions.

## Description

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The HOBO MX2302A is a weatherproof data logger with external temperature and relative humidity sensors. Leveraging Bluetooth Low Energy, the logger enables easy, fast set up and data download directly from your mobile device. For remote cloud-based access to your data and alerts, simply add the optional [MX Gateway](#).

## Key Features

- Convenient wireless setup and data download via Bluetooth Low Energy, or via the cloud with the optional MX Gateway
- View current data in real time with the free HOBOnnect app, and near real-time cloud-based monitoring with the optional MX Gateway
- Receive alert notifications for out-of-range conditions via email or SMS text message with the optional MX Gateway
- Visual alerts on the data logger and app
- Retrieve data in hard-to-reach locations
- Compact, weatherproof housing with built-in mounting system
- Share downloaded data easily from your mobile device
- Accuracy: +/- 0.2C° and +/- 2.5% RH.



# Additional Information

|                        |  |  |        |
|------------------------|--|--|--------|
| Country of Manufacture | United States  |  |        |
| Brand                  | Onset HOBO   |  |        |
| Measurements           | 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 HOBOnnect 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   |  |        |
| Sensors                | <b>Temperature Sensor:</b>   |  |        |
|                        | Range  | MX2301A and MX2305 internal sensors: -40 to 70°C (-40 to 158°F)<br>MX2302A external temperature sensor: -40 to 70°C (-40 to 158°F)<br>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)<br>±0.2°C from 0 to 70°C (±0.36 from 32 to 158°F)<br>±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   |        |
|                        | <b>RH Sensor:</b>  |  |        |
|                        | 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 |
| 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, user replaceable  |  |        |
| Power                  | Battery only   |  |        |

# Additional Options

|   |   |
|---|---|
| <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)           |