



HOBO MX2305 Wireless Temperature Data Logger - Optional Remote Monitoring

Product Images



Short Description

The HOBO MX2305 is a weatherproof data logger with an a built-in temperature sensor. 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](#).

Designed to withstand harsh indoor/outdoor conditions.

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°.



Additional Information

Country of Manufacture	United States
Brand	Onset HOBO
Measurements	Temperature
Typical applications	Environmental (Indoor), Environmental (Outdoor), Field Research, Food Safety
Onset Product Series	MX2300
Explanation	Features: 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 HOBObconnect app Share downloaded data easily from your mobile device Accuracy: +/- 0.2C
Power	Battery only

Temperature Sensor:

Range MX2301 and MX2305 internal sensors:
-40 to 70°C (-40 to 158°F)
MX2302 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 $\pm 0.25^{\circ}\text{C}$ from -40 to 0°C (± 0.45 from
-40 to 32°F)
 $\pm 0.2^{\circ}\text{C}$ from 0 to 70°C (± 0.36 from 32
to 158°F)
 $\pm 0.25^{\circ}\text{C}$ from 70 to 100°C (± 0.45 from
158 to 212°F), MX2303 and MX2304
only

Resolution 0.04°C (0.072°F)

Drift $<0.01^{\circ}\text{C}$ (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 $\pm 2.5\%$ from 10% to 90% (typical) to a
maximum of $\pm 3.5\%$ including
hysteresis at 25°C (77°F); below 10%
RH and above 90% RH $\pm 5\%$ typical

Resolution 0.05%

Drift $<1\%$ per year typical

Dimensions Logger housing: 10.8 x 5.08 x 2.24 cm (4.25 x 2.0 x 0.88
in.) External temperature sensor diameter: 0.53 cm
(0.21 in.) External temperature/RH sensor diameter:
1.17 cm (0.46 in.) External sensor cable length: 2 m
(6.56 ft) Solar radiation shield bracket:

Batteries 2/3 AA 3.6 Volt lithium

Power Battery only

Additional Options

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 Calibration Certificate	2 Point Temperature Calibration (0°C / 60°C)
	2 Point Temperature Calibration (please specify temperature points)
	1 Point Temperature Calibration (0°C)