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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. View current data in real time with the free HOBOnnect app.

Description

The HOBOn 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 or Windows computer.

Key Features

- Convenient wireless setup and data download via Bluetooth Low Energy
- View current data in real time with the free HOBOnnect app
- Receive alert notifications for out-of-range conditions on the data logger and app
- Retrieve data in hard-to-reach locations
- Compact, weatherproof housing with built-in mounting system
- Accuracy: +/- 0.2C° and +/- 2.5% RH.

Requires a compatible mobile device or Windows computer and the HOBOnnect app.

Access your data directly from your mobile phone, tablet, or Windows computer when within 100 foot line-of-sight range of the logger - with the free HOBOnnect app.

To enable [cloud data storage](#) and analysis - add an [MX Data Plan](#) (select from options above).

To enable near real-time remote monitoring and alerts via email/text message - add an MX Data Plan and [MX Gateway](#) (select options above). Note: The MX Gateway must be indoors.

You can download the HOBOnnect app here



Additional Information

Country of Manufacture	United States		
Brand	HOBO		
Measurements	Humidity, Temperature		
Typical applications	Environmental (Indoor), Environmental (Outdoor), Field Research, Food Safety		
HOBO Product Series	MX2300		
Power	Battery Only		
Sensors	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
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

Optional cloud data storage and analysis - select an annual MX Data Plan from the options below (one Data Plan required per logger)	MX-Speed (Supports up to 4 measurements with 1 minute logging)
	MX-Data (Supports up to 10 measurements with 5 minute logging)
Optional near real-time remote monitoring and alerts via email/text message (requires an MX Gateway, plus one MX Data Plan for each MX Logger)	MX Gateway for HOBO MX Data Loggers (SKU: MXGTW1)
Temperature & Humidity Calibration Certificate	Temperature & Humidity Calibration @ 20°C and 50RH
	Temperature & Humidity Calibration (please specify measurement points required)