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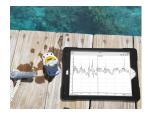


HOBO MX2203 Bluetooth Waterproof (120 Metres) Temperature Data Logger

Product Images











Short Description

The HOBO MX2203 TidbiT waterproof temperature logger is ideal for long-term deployments in streams, lakes, and oceans (up to 400 foot depths).

This rugged waterproof logger leverages the power of Bluetooth Low Energy (BLE) to deliver high-accuracy temperature measurements straight to your iOS or Android mobile device.

Description

HOBO MX2203 TidbiT waterproof temperature logger leverages the power of Bluetooth Low Energy (BLE) to deliver high-accuracy temperature measurements straight to your mobile device with Onset's free HOBOconnect app. Designed for durability, this rugged waterproof logger is ideal for long-term deployments in streams, lakes, and oceans (up to 400-foot depths). The HOBO MX2203 also provides the additional feature to detect and record the presence of water which is ideal for monitoring intermittent water applications. Data collection in the field has never been easier!

For remote cloud-based access to your data and alerts via email/SMS text message, simply add the optional MX Gateway (indoor deployments).

Key Features

- Convenient wireless setup and download via Bluetooth Low Energy (BLE)
- Large memory stores 96,000 measurements
- Waterproof to 120 metres (400 feet)
- User-replaceable battery
- Waterproof boot protects the logger during deployment
- LED alarm notifies you when temperature exceeds set threshold
- Water detection feature conserves battery life
- Works with Onset's free HOBOconnect app
- ±0.2°C (±0.36°F) accuracy

This data logger operates in indoor, outdoor and underwater environments.

Supports the following measurements: Soil Temperature, Temperature and Water Temperature.

Additional Information

Country of Manufacture	United States		
	Temperature Sensor (MX2:	Temperature Sensor (MX2203)	
	Range MX2203	-20° to 70°C (-4° to 158°F) in air; -20° to 50°C (-4° to 122°F) in water	
		from -20° to 0°C (±.45°F from -4° to 32°F) rom 0° to 70°C (±0.36°F from 32° to 158°F)	
	Resolution 0.01°C (0	0.018°F)	
	Drift <0.1°C (0	0.18°F) per year	
		17 minutes typical to 90% in air moving 1 m/s, unmounted; es typical to 90% in stirred water, unmounted	
	Logger		
	Radio Power	1 mW (0 dBm)	
	Transmission Range	Approximately 30.5 m (100 ft) line-of-sight	
	Wireless Data Standard	Bluetooth Smart (Bluetooth Low Energy, Bluetooth 4.0)	
	Logger Operating Range	-20° to 70°C (-4° to 158°F)	
	Logging Rate	1 second to 18 hours	
	Buoyancy (Fresh Water)	MX2203: 3.1 g (0.11 oz) negative	
	Waterproof	MX2203: To 122 m (400 ft)	
Explanation	Water Detection	Water conductivity level of 100 μ S/cm or greater necessary for reliable detection of water. Deionized water or water below 100 μ S/cm may not be detected. The water conductivity circuit may not reliably detect water that has frozen around the electrodes, i.e. below 0°C (32°F).	
	Memory	96,000 measurements	
	Battery	CR2477 3V lithium, user replaceable in MX2203,	
	Battery Life	3 years, typical at 25°C (77°F) with logging interval of 1 minute and Bluetooth Always Off disabled in software. 5 years, typical at 25°C (77°F) with logging interval of 1 minute and Bluetooth Always Off or Bluetooth Off Water Detect enabled in software. Faster logging intervals and statistics sampling intervals, burst logging, remaining connected with the app, excessive downloads, and paging may impact battery life. To ensure proper battery installation, see Battery Information for detailed instructions on replacing the battery in the MX2203 logger.	
	Time Accuracy	± 1 minute per month at 25°C (77°F)	
	Full Memory Dowload	Approximately 45 seconds; may take longer the farther the device is from the logger	
	Wetted Materials	MX2203: Polypropylene case, EPDM O-ring, stainless steel screws, Santoprene® (TPE) boot	
	Dimensions	MX2203: 4.45 x 7.32 x 3.58 cm (1.75 x 2.88 x 1.41 inches)	
	Weight	MX2203: 36.2 g (1.28 oz)	
		is product as complying with all relevant directives in the European has been tested and found to comply with the limits for a Class B art 15 of the FCC Rules.	
Contents	Data Logger, Protective Boo	Data Logger, Protective Boot	
Ideal For	Professional, Education	Professional, Education	
Brand	Onset HOBO	Onset HOBO	
Onset Product Series	TidbiT	TidbiT	
Typical applications	Environmental (Outdoor), Fi	Environmental (Outdoor), Field Research, Food Safety, Water Quality	
Measurements	Temperature, Water Temper	Temperature, Water Temperature	

Additional Options

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)	
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	