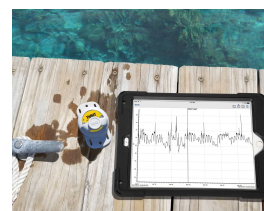




HOB0 MX2203 Bluetooth Waterproof (120 Metres) Temperature Data Logger

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 HOBOnnect 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 HOBOnnect app
- $\pm 0.2^{\circ}\text{C}$ ($\pm 0.36^{\circ}\text{F}$) 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
Explanation	Temperature Sensor (MX2203)
	RangeMX2203: -20° to 70°C (-4° to 158°F) in air; -20° to 50°C (-4° to 122°F) in water
	Accuracy±0.25°C from -20° to 0°C (±.45°F from -4° to 32°F) ±0.2°C from 0° to 70°C (±0.36°F from 32° to 158°F)
	Resolution0.01°C (0.018°F)
	Drift<0.1°C (0.18°F) per year
	Response TimeMX2203: 17 minutes typical to 90% in air moving 1 m/s, unmounted; 7 minutes typical to 90% in stirred water, unmounted
	Logger
	Radio Power1 mW (0 dBm)
	Transmission RangeApproximately 30.5 m (100 ft) line-of-sight
	Wireless Data StandardBluetooth Smart (Bluetooth Low Energy, Bluetooth 4.0)
	Logger Operating Range-20° to 70°C (-4° to 158°F)
	Logging Rate1 second to 18 hours
	Buoyancy (Fresh Water)MX2203: 3.1 g (0.11 oz) negative
	WaterproofMX2203: To 122 m (400 ft)
	Water DetectionWater conductivity level of 100 µS/cm or greater necessary for reliable detection of water. Deionized water or water below 100 µS/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).
	Memory96,000 measurements
	BatteryCR2477 3V lithium, user replaceable in MX2203,
	Battery Life3 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 DowloadApproximately 45 seconds; may take longer the farther the device is from the logger
	Wetted MaterialsMX2203: Polypropylene case, EPDM O-ring, stainless steel screws, Santoprene® (TPE) boot
	DimensionsMX2203: 4.45 x 7.32 x 3.58 cm (1.75 x 2.88 x 1.41 inches)
	WeightMX2203: 36.2 g (1.28 oz)
	The CE Marking identifies this product as complying with all relevant directives in the European Union (EU). This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.
Contents	Data Logger, Protective Boot
Ideal For	Professional, Education
Brand	Onset HOBO
Onset Product Series	TidbiT
Typical applications	Environmental (Outdoor), Field Research, Food Safety, Water Quality
Measurements	Temperature, Water Temperature

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