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HOBO MX2204 Bluetooth Waterproof (1500 Metres) Temperature Data Logger

Product Images









Short Description

The HOBO MX2204 TidbiT waterproof temperature logger is ideal for long-term deployments in streams,

lakes, and oceans (up to 5,000 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

The HOBO MX2204 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. The HOBO MX2204 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 1500 metres (5000 feet)
- Water detection feature records when logger is in and out of the water
- Waterproof boot protects the logger during deployment
- LED alarm notifies you when temperature exceeds set threshold
- Battery life extension feature
- Works with Onset's free HOBOconnect app
- ±0.2°C (±0.36°F) accuracy.

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

The MX2204 data logger supports the following measurements: Soil Temperature, Temperature and Water Temperature.

Additional Information

Country of Manufacture	United States		
	Temperature Se Range	MX2204: -20° to 70°C (-4° to 158°F) in air; -20° to 50°C (-4° to 122°F) in water, maximum sustained	
	Accuracy	temperature in water 30°C (86°F) ±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)	
	Resolution Drift	0.01°C (0.018°F)	
		<0.1°C (0.18°F) per year MX2204: 15 minutes typical to 90% in air moving 1 m/s, unmounted:	
		4 minutes typical to 90% in stirred water, unmounted	
	Logger Radio Power	1 mW (0 dBm)	
	Transmission Rar Wireless Data	Approximately 30.5 m (100 ft) line-of-sight Bluetooth Smart (Bluetooth Low Energy,	
	Standard Logger Operating Range	Bluetooth 4.0) -20° to 70°C (-4° to 158°F)	
	Logging Rate Buoyancy (Fresh Water)	1 second to 18 hours MX2204: 7.6 g (0.27 oz) negative	
	Water) Waterproof Water Detection	MX2204: To 1,524 m (5,000 ft) Water 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.	
Explanation		The water conductivity circuit may not reliably detect water that has frozen around the electrodes, i.e. below 0°C (32°F).	
	Memory Battery	96,000 measurements CR2477 3V lithium, non-replaceable in MX2204	
	Battery Life Time Accuracy	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. ± 1 minute per month at 25°C (77°F)	
	Full Memory Dow	Approximately 45 seconds; may take longer the farther the device is from the logger	
	Wetted Materials Dimensions	MX2204: Epoxy case, Santoprene (TPE) boot MX2204: 4.06 x 6.99 x 3.51 cm (1.6 x 2.75 x 1.38 inches)	
	directives in the Eu	MX2204: 32.8 g (1.16 oz) entifies this product as complying with all relevant ropean Union (EU). This equipment has been tested aly with the limits for a Class B digital device, pursuant	
Contents	Data Logger, Prote	Data Logger, Protective Boot	
Ideal For	Professional, Educa	Professional, Education	
Brand	Onset HOBO	Onset HOBO	
Onset Product Series	TidbiT	TidbiT	
Typical applications	Environmental (Ou	Environmental (Outdoor), Field Research, Food Safety, Water Quality	
Measurements	Temperature, Wate	Temperature, Water Temperature	

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)