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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

Temperature Sensor (MX2204) Range MX2204-20-to 70°C (-4" to 158°F) in alr20" to 50°C (-4" to 127°P) in water, maximum sustained temperature in water 30°C (80°F) Accuracy 40°P (20°P) 40	Country of Manufacture	United States		
Resolution Drift Contents		Range MX (-4	2204: -20° to 70°C (-4° to 158°F) in air; -20° to 50°C ° to 122°F) in water, maximum sustained	
Response Time M2204-135 minutes typical to 90% in air moving 1 m/s. unmounted. Logger Radio Power Radio Power Transmission Range I May 1 minutes typical to 90% in stirred water, unmounted Range I minutes typical to 90% in stirred water, unmounted Range I minutes typical to 90% in stirred water, unmounted Range I minutes typical to 90% in stirred water, unmounted Range I minutes the property of		Accuracy ±0. ±0.	.25°C from -20° to 0°C (±.45°F from -4° to 32°F) .2°C from 0° to 70°C (±0.36°F from 32° to 158°F)	
Radio Power Transmission Range Wireless Data Standard Logger Operating Range Logging Rate Dougling R		Response Time MX unr	2204: 15 minutes typical to 90% in air moving 1 m/s, mounted;	
Water Wate		Radio Power Transmission Range Wireless Data Standard Logger Operating Range Logging Rate	Approximately 30.5 m (100 ft) line-of-sight Bluetooth Smart (Bluetooth Low Energy, Bluetooth 4.0) -20° to 70°C (-4° to 158°F) 1 second to 18 hours	
Memory Battery 96,000 measurements GR2477 3V lithium, non-replaceable in MX2204 Squars, typical at 25°C (77°F) with logging interval of 1 minute and Bluetooth Always Off disabled in software. Syears, typical at 25°C (77°F) with logging interval of 1 minute and Bluetooth Always Off disabled in software. Syears, 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, burst logging, remaining connected with the app, excessive downloads, and paging may impact battery life. 1 minute per month at 25°C (77°F) May be downloads, and paging may impact battery life. 1 minute per month at 25°C (77°F) May be downloads, and paging may impact battery life. 1 minute per month at 25°C (77°F) May be downloads, and paging may impact battery life. 1 minute per month at 25°C (77°F) May be downloads, and paging may impact battery life. 1 minute per month at 25°C (77°F) May be downloads, and paging may impact battery life. 1 minute per month at 25°C (77°F) May be downloads, and paging may impact battery life. 1 minute per month at 25°C (77°F) May be downloads, and paging may impact battery life. 1 minute per month at 25°C (77°F) May be downloads, and paging may impact battery life. 1 minute per month at 25°C (77°F) May be downloads, and paging may impact battery life. 1 minute per month at 25°C (77°F) May be downloads, and paging may impact battery life. 1 minute per month at 25°C (77°F) May be downloads, and paging may impact battery life. 1 minute per month at 25°C (77°F) May be downloads, and paging may impact battery life. 1 minute per month at 25°C (77°F) May be downloads, and paging may impact battery life. 1 minute per month at 25°C (77°F) May be downloads, and paging may impact battery life. 1 minute per month at 25°C (77°F) May be downloads, and paging may impact battery life. 1 minute per month at 25°C (77°F) May be downloads, and paging may im	Explanation	Water) Waterproof	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. The water conductivity circuit may not reliably detect water that has frozen around	
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 Time Accuracy Full Memory Dowload Wetted Materials Dimensions Weight Weight Mx2204: 4.06 x 6.99 x 3.51 cm (1.6 x 2.75 x 1.38 inches) Weight Mx2204: 3.8 g (1.16 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		Battery	96,000 measurements CR2477 3V lithium, non-replaceable in MX2204	
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Ideal For Professional, Education Brand Onset HOBO Onset Product Series TidbiT Typical applications Environmental (Outdoor), Field Research, Food Safety, Water Quality		Weight The CE Marking identif directives in the Europ and found to comply w	1.38 inches) MX2204: 32.8 g (1.16 oz) fies this product as complying with all relevant rean Union (EU). This equipment has been tested with the limits for a Class B digital device, pursuant	
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Typical applications Environmental (Outdoor), Field Research, Food Safety, Water Quality	Brand	Onset HOBO	Onset HOBO	
	Onset Product Series	TidbiT	TidbiT	
Measurements Temperature, Water Temperature	Typical applications	Environmental (Outdo	Environmental (Outdoor), Field Research, Food Safety, Water Quality	
	Measurements	Temperature, Water To	emperature	

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)