

## HOBO® MX2204 Data Logger

TidbiT MX Temperature 5000'

The HOBO MX2204 TidbiT waterproof temperature logger leverages the power of Bluetooth Low Energy (BLE) to deliver highaccuracy temperature measurements straight to your mobile device or Windows computer 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!

Add the MX Gateway for remote access to your data in Onset's cloud-based HOBOlink software.

You can download the HOBOconnect app here:

## Key Advantages:

- Convenient wireless setup and download via Bluetooth Low Energy (BLE)
- Large memory stores 96,000 measurements
- Waterproof to 1500 meters (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



Temperature Sensor (MX2203 and MX2204)		
Range	MX2203: -20° to 70°C (-4° to 158°F) in air; -20° to 50°C (-4° to 122°F) in water	
	MX2204: -20° to 70°C (-4° to 158°F) in air; -20° to 50°C (-4° to 122°F) in water, maximum sustained	
	temperature in water 30°C (86°F)	
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)	
Resolution	0.01°C (0.018°F)	
Drift	<0.1°C (0.18°F) per year	
Response Time	MX2203: 17 minutes typical to 90% in air moving 1 m/s, unmounted;	
	7 minutes typical to 90% in stirred water, unmounted	
	MX2204: 15 minutes typical to 90% in air moving 1 m/s, unmounted;	
	4 minutes typical to 90% in stirred water, unmounted	

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 MX2204: 7.6 g (0.27 oz) negative MX2204: To 1.52 m (400 ft)         Waterproof       MX2203: To 1.22 m (400 ft) MX2204: To 1.52 m (5000 ft)         Water Detection       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 the electrodes, i.e. below 0°C (32°F).         Memory       96,000 measurements         Battery       CR2477 3V lithium, user replaceable in MX2203, non-replaceable in MX2204         Battery Life       3 years, typical at 25°C (77°F) with logging interval of 1 minute and Bluetooth Always Off or Bluetooth Off Water Detect in software.         Faster logging intervals and statistics sampling intervals, burst logging, remaining connected with the app, excessive downloads, and paging may impact battery life.         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 MX2203: Polypropylene case, EPDM O-ring, stainless steel screws, Santoprene® (	Logger	
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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)         MX2204: To 1,524 m (5,000 ft)       MX2204: To 1,524 m (5,000 ft)         Water Detection       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 the electrodes, i.e. below 0°C (32°F).         Memory       96,000 measurements         Battery       CR2477 3V lithium, user replaceable in MX2203, non-replaceable in MX2204         Battery Life       3 years, typical at 25°C (77°F) with logging interval of 1 minute and Bluetooth Always On in software.         5 years, typical at 25°C (77°F) with logging intervals of 1 minute and Bluetooth Always Off or Bluetooth Off Water Detect in software.         F years to logging intervals and statistics sampling intervals, burst logging, remaining connected with the app, excessive downloads, and paging may impact battery life.         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         MX2203: Polypropylene case, EPDM O-ring, stainless steel screws, Santoprene® (TPE) boot       MX2204: Epoxy case, Santoprene (TPE) boot         Dimensions <th>Transmission Range</th> <th></th>	Transmission Range	
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HC 🖉		
		FC 🖉

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.

## **Contact Us**

Sales (8am to 5pm ET, Monday through Friday)

- Email sales@onsetcomp.com
- Call 1-508-759-9500
- In U.S. toll free 1-800-564-4377
- Fax 1-508-759-9100

Technical Support (8am to 6pm ET, Monday through Friday)

- Contact Product Support www.onsetcomp.com/support/contact
- Call 1-508-759-9500
- In U.S. toll free 1-877-564-4377

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