

MX2204

## HOBO TidbiT MX Temperature 5000-ft Data Logger

### Bluetooth-enabled logger

Our highest depth-rated option, this waterproof temperature logger with Bluetooth delivers high-accuracy data straight to your mobile device or Windows computer via the HOBObconnect app.

#### Important Information

Requires a compatible mobile device or Windows computer and the HOBObconnect app. System requirements for the app can be found at the bottom of the HOBObconnect software page. Get cloud storage and access to the powerful tools of LI-COR Cloud<sup>®</sup> IoT software! (formerly HOBOLink) Add an MX Data Plan!



Compatible with  
**HOBObconnect<sup>®</sup> Monitoring App**



### Supported Measurements

Soil Temperature, Temperature, Water Temperature

### Features

- Convenient wireless setup and download via Bluetooth
- 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

### Contact Us

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

- Email [sales@onsetcomp.com](mailto: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 5pm ET, Monday through Friday)

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

Onset Computer Corporation  
470 MacArthur Boulevard  
Bourne, MA 02532

# HOBO TidbiT MX Temperature 5000-ft Data Logger (MX2204) Specifications

## Temperature Sensor

<b>Range</b>	-20° to 70°C in air; -20° to 50°C in water, maximum sustained temperature in water 30°C (-4° to 158°F in air; -4° to 122°F in water)
<b>Accuracy</b>	±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)
<b>Resolution</b>	0.01°C (0.018°F)
<b>Drift</b>	<0.1°C per year (<0.18°F per year)
<b>Response Time</b>	15 minutes typical to 90% in air moving 1 m/s, unmounted; 4 minutes typical to 90% in stirred water, unmounted

## Logger

<b>Logger Operating Range</b>	-20° to 70°C (-4° to 158°F)
<b>Buoyancy (Fresh Water)</b>	7.6 g negative (0.27 oz negative)
<b>Waterproof</b>	To 1,524 m (To 5,000 ft)
<b>Water Detection</b>	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).
<b>Radio Power</b>	1 mW (0 dBm)
<b>Transmission Range</b>	Approximately 30.5 m line-of-sight (Approximately 100 ft line-of-sight)
<b>Wireless Data Standard</b>	Bluetooth Low Energy (Bluetooth Smart)
<b>Logging Rate</b>	1 second to 18 hours
<b>Time Accuracy</b>	±1 minute per month at 25°C (±1 minute per month at 77°F)
<b>Battery</b>	CR2477 3V lithium, non-replaceable
<b>Battery Life</b>	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.
<b>Memory</b>	96,000 measurements
<b>Full Memory Download Time</b>	Approximately 45 seconds; may take longer the farther the device is from the logger
<b>Wetted Materials</b>	Epoxy case, Santoprene (TPE) boot
<b>Dimensions</b>	4.06 x 6.99 x 3.51 cm (1.6 x 2.75 x 1.38 inches)
<b>Weight</b>	32.8 g (1.16 oz)
<b>Environmental Rating</b>	IP68

