

MX2204

HOBOb TidbiT MX Temperature 5000-ft Data Logger

Bluetooth-enabled logger

A waterproof temperature logger that uses the power of Bluetooth to deliver high-accuracy data straight to your mobile device or Windows computer running Onset's free 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.



Compatible with
HOBObconnect 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
- Waterproof boot protects the logger during deployment
- LED indicates when temperature exceeds set threshold
- Battery life extension feature
- Works with Onset's free HOBObconnect app
- $\pm 0.2^{\circ}\text{C}$ ($\pm 0.36^{\circ}\text{F}$) accuracy

What's in the box

- Data Logger
- Protective Boot

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

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Technical Support (8am to 5pm 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

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

Temperature Sensor

Range	-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)
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 per year (<0.18°F per year)
Response Time	15 minutes typical to 90% in air moving 1 m/s, unmounted; 4 minutes typical to 90% in stirred water, unmounted

Logger

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

