ONSET



HOBO® MX2204 Data Logger

TidbiT MX Temperature 5000' Data Logger

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. 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)
- · Waterproof boot protects the logger during deployment
- LED alarm notifies you when temperature exceeds set threshold
- · Water detection feature conserves battery life
- Works with Onset's free HOBOconnect app
- ±0.2°C (±0.36°F) accuracy

HOBO MX2204 Data Logger Specifications

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)

Weight

Environmental Rating

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

Logger Radio Power 1 mW (0 dBm) Approximately 30.5 m (100 ft) line-of-sight **Transmission Range** 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 Waterproof MX2203: To 122 m (400 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 CR2477 3V lithium, user replaceable in MX2203, non-replaceable in MX2204 **Battery 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 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® (TPE) **Wetted Materials** boot MX2204: Epoxy case, Santoprene (TPE) boot **Dimensions** MX2203: 4.45 x 7.32 x 3.58 cm (1.75 x 2.88 x 1.41 inches)

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.

MX2204: 4.06 x 6.99 x 3.51 cm (1.6 x 2.75 x 1.38 inches)

MX2203: 36.2 g (1.28 oz) MX2204: 32.8 g (1.16 oz)

IP68



Contact Us HOBO Data Loggers

Australia 1300 186 107 www.hobodataloggers.com.au sales@hobodataloggers.com.au

New Zealand 0800 104 904 www.onetemp.co.nz sales@onetemp.co.nz