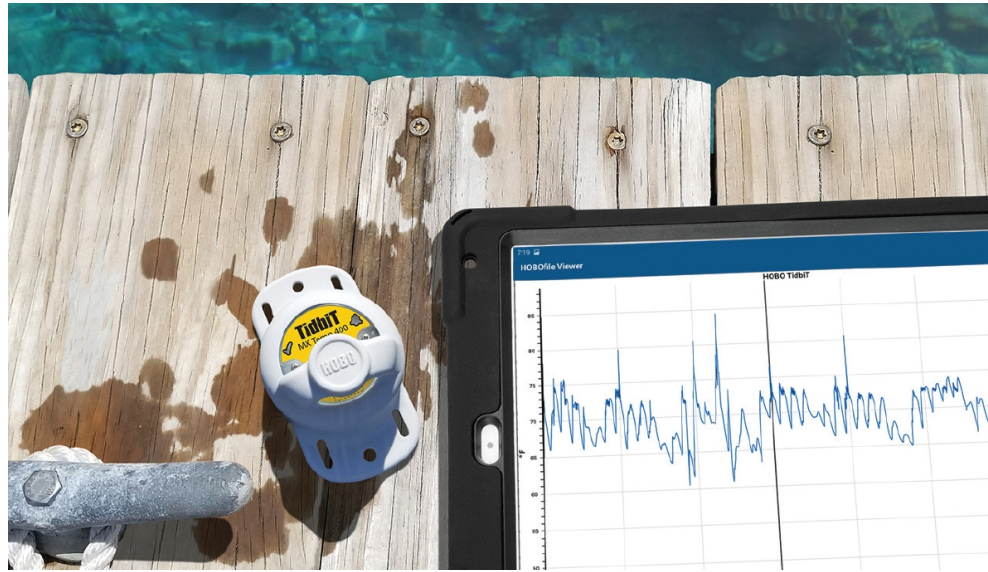# Water Temperature Data Straight to your Mobile Device

The new HOBO MX2200 Series water temperature loggers bring convenient wireless setup and download to Onset's field-proven TidbiT and Pendant water temp loggers! These new models feature the power of Bluetooth Low Energy (BLE) to deliver high-accuracy temperature measurements straight to your iOS or Android mobile device. No need to take a laptop or shuttle into the field!

With its rugged case design, expanded memory, and both temperature and temperature/light models, these loggers are ideal for measuring temperature in streams, lakes, oceans, and soil environments. Remotely access your data in Onset's cloudbased HOBOlink software with the new MX Gateway

Key Advantages:

- Convenient wireless setup and download via BLE
- Large memory stores 96,000 measurements
- Mounting tabs to make deployment fast and easy
- Water detection feature conserves battery life
- User-replaceable battery (MX2201, MX2202, MX2203)
- Works with Onset's HOBOconnect® app

Minimum System Requirements:

HOBOconnect   Mobile

- iOS 11X, 12X and 13
- Android 7, 8, 9 and 10
- Bluetooth 4.X and up

Download on the App Store   ANDROID APP ON Google play   Get it from Microsoft

Supported Measurements:

- Temperature
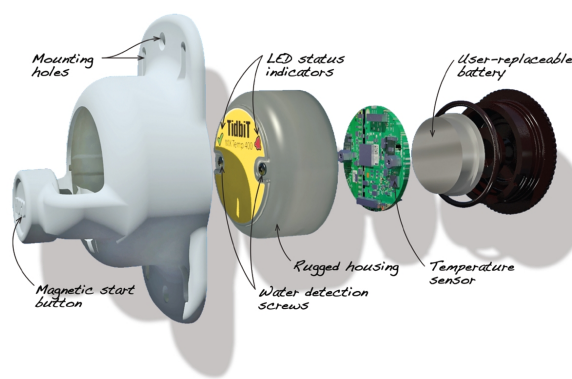- Light

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Scientech

Effortless, Accurate Data

Onset's HOBOconnect app, a free download from iTunes and Google Play, makes it easy to configure MX2200 Series loggers in the field and manage your data.

The loggers provide high accuracy over a wide temperature range. And, the HOBO MX2202 model features a built-in light sensor to give you repeatable light-level data in shallow-water monitoring applications.

Feature-packed

The reliable HOBO MX2200 Series loggers integrate a rich set of features in a compact, rugged package designed to streamline your deployment.

MX2201	MX2202	MX2203	MX2204
Temperature	Temperature / Light	Temperature	Temperature
Depth rating 100 ft	Depth rating 100 ft	Depth rating 400 ft	Depth rating 5000 ft

Technical Specifications:

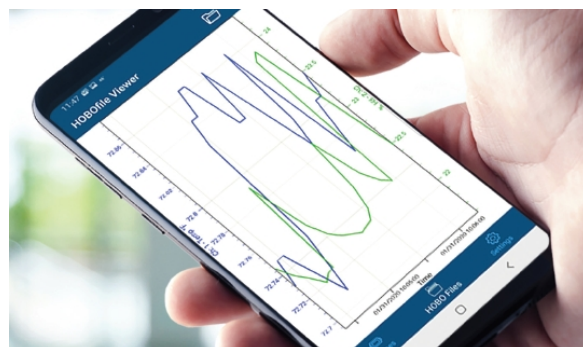| Temperature Sensor (MX2201 and MX2202)		
	Range	-20° to 70°C (-4° to 158°F) in air -20° to 50°C (-4° to 122°F) in water
	Accuracy	±0.5°C from -20° to 70°C (-4° to 158°F)
	Resolution	0.04°C (0.072°F)
	Drift	<0.1°C (0.18°F) per year
	Response Time	17 minutes typical to 90% in air moving 1 m/s, unmounted 7 minutes typical to 90% in stirred water, unmounted
Light Sensor (MX2202)	Range	0 to 167,731 lux (15,582 lum/ft2)
	Accuracy	±10% typical for direct sunlight
Logger	Logger Operating Range	-20° to 70°C (-4° to 158°F) in air
	Waterproof	To 30.5 m (100 ft)
	Wireless Data Standard	Bluetooth Low Energy (Bluetooth Smart)
	Logging Rate	1 second to 18 hours
	Time Accuracy	±1 minute per month at 25°C (77°F)
	Battery	CR2032 3V lithium, user-replaceable
	Battery Life	1 year typical at 25°C (77°F) with logging interval of 1 minute and Bluetooth Always On, 2 years typical with Bluetooth Always Off
	Memory	96,000 measurements
	Dimensions	3.35 x 5.64 x 1.6 cm (1.32 x 2.22 x 0.63 inches)

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
Logger	Logger Operating Range	-20° to 70°C (-4° to 158°F)
	Waterproof	MX2203: To 122 m (400 ft) MX2204: To 1,524 m (5,000 ft)
	Transmission Range	Approximately 30.5 m (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 (77°F)
	Battery	CR2477 3V lithium, user-replaceable in MX2303, non-replaceable in MX2304
	Battery Life	3 years, typical at 25°C (77°F) with logging interval of 1 minute and Bluetooth Always On, 5 years typical with Bluetooth Always Off
	Memory	96,000 measurements
	Dimensions	MX2203: 4.45 x 7.32 x 3.58 cm (1.75 x 2.88 x 1.41 inches) MX2204: 4.06 x 6.99 x 3.51 cm (1.6 x 2.75 x 1.38 inches)

HOBOconnect® App for MX Data Loggers

Easy logger setup and data management with your mobile device or Windows computer

Onset's free HOBOconnect app makes it fast and easy to configure compatible HOBO MX Series data loggers (chart below) and manage the collected data. Just download the app from the Apple App Store or Google Play to your mobile device, or download from our website to your Windows computer. WithHOBOconnect, you can view data in graphs, check the operational status of loggers, share data files and graph images for analysis in Excel, Numbers, and other applications, plus store data in the cloud. HOBOconnect also lets you quickly set up audible alarm notifications, so you're immediately alerted to any problems.

Features:

- Communicates to HOBO MX data loggers using Bluetooth (LE) technology
- No internet connection required
- Set data logger's name, password, logging rate, alarm threshold, start and stop time
- Automatically upload data to Onset's cloud-based HOBOlink software to store and merge data files
- Configure and clear audible alarms
- Page the data logger
- Quickly download and view data
- Export and share data as CSV, TXT, XLSX, or HOBO files

Subject to Change