

**NEW**

# HOBO MX2200 Series Water Temp Loggers

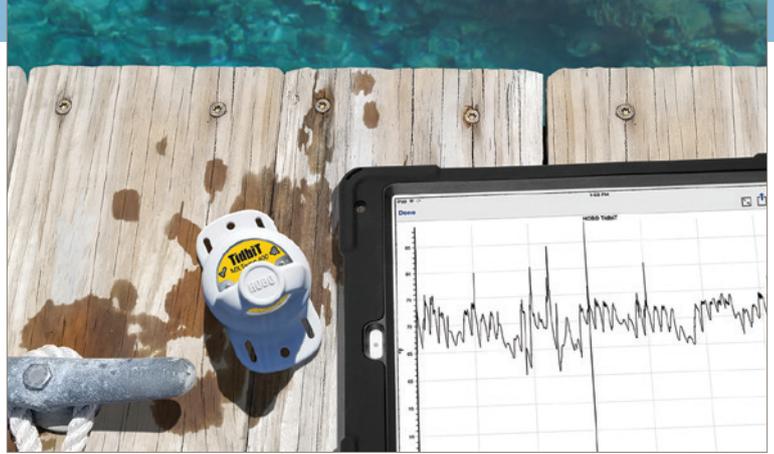
## Water Temperature Data Straight to your Mobile Device

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.

### Supported Measurements:

Temperature, Light



### 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 HOBOMobile® app

### Minimum System Requirements:



HOBOMobile  
See pg 39



Mobile  
device



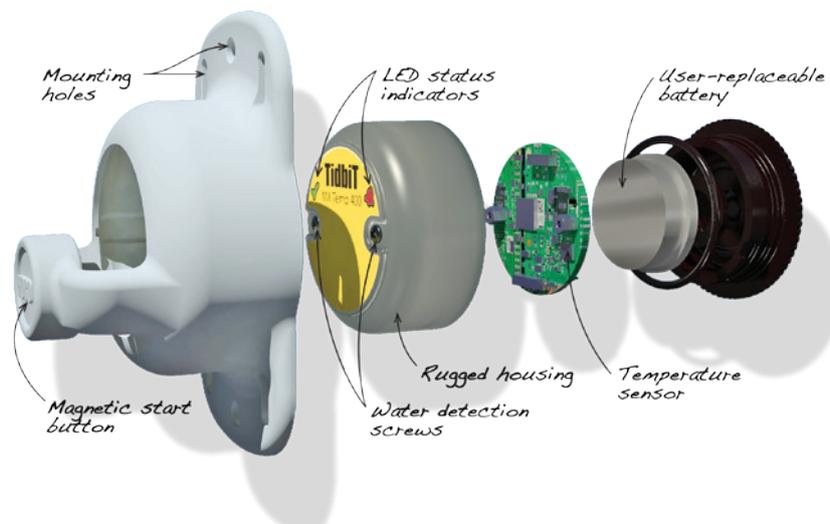
### Effortless, Accurate Data

Onset's HOBOMobile 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  
Temperature  
Depth rating 100 ft



MX2202  
Temperature / Light  
Depth rating 100 ft



MX2203  
Temperature  
Depth rating 400 ft



MX2204  
Temperature  
Depth rating 5000 ft

### 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
<b>Light Sensor (MX2202)</b>	Range	0 to 167,731 lux (15,582 lum/ft <sup>2</sup> )
	Accuracy	±10% typical for direct sunlight
<b>Logger</b>	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
<b>Logger</b>	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)