



## HOBO<sup>®</sup> MX2202 Data Logger

### Pendant<sup>®</sup> MX Temperature/Light

A waterproof temperature/light-level logger using the power of Bluetooth to deliver accurate data straight to your mobile device or Windows computer running Onset's free HOBObconnect app. Designed for durability, this compact is ideal for measuring temperature in streams, lakes, oceans, and soil environments. Data collection in the field has never been easier!

Add the MX Gateway. for access to your data in Onset's cloud-based HOBOLink software (indoor deployments).

Mounting Requirements: It is very important that the logger housing does not become distorted when mounted. When mounting these loggers to any non-flat surface, such as rebar or posts, we recommend using the Mounting Boot (BOOT-MX2201-2202). This boot is also useful for mounting loggers so that they can be easily removed for service. A waterproof temperature/light-level logger using the power of Bluetooth to deliver accurate data straight to your mobile device or Windows computer running Onset's free HOBObconnect app.



#### Key Advantages:

- New light sensor offers more accurate light intensity readings for light in the visible light spectrum
- Convenient wireless setup and download via Bluetooth
- Large memory stores 96,000 measurements
- Waterproof to 30 meters (100 feet)
- User-replaceable battery
- Mounting tabs for fast, easy deployment
- LED alarm notifies you when temperature exceeds set threshold
- Works with Onset's free HOBObconnect app
- $\pm 0.5^{\circ}\text{C}$  ( $\pm 0.9^{\circ}\text{F}$ ) temperature accuracy and  $\pm 10\%$  light accuracy typical for direct sunlight

## HOBO MX2202 Data Logger Specifications

<b>Temperature Sensor (MX2201 and MX2202)</b>	
Range	-20° to 70°C in air (-4° to 158°F in air) -20° to 50°C in water (-4° to 122°F in water)
Accuracy	±0.5°C from -20° to 70°C (±0.5°C from -4° to 158°F)
Resolution	0.04°C (0.072°F)
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 (0 to 15,582 lum/ft <sup>2</sup> )
Accuracy	±10% typical for direct sunlight (see Light Measurement on page 2 for more details)
<b>Logger</b>	
Logger Operating Range	-20° to 70°C in air (-4° to 158°F in air)
Buoyancy (Fresh Water)	2 g positive (0.07 oz positive)
Waterproof	To 30.5 m (To 100 ft)
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
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 enabled in software. 2 years typical at 25°C (77°F) with logging interval of 1 minute and Bluetooth Always On disabled in software. Faster logging intervals and statistics sampling intervals, burst logging, remaining connected with the app, excessive downloads, and paging may impact battery life. To ensure proper battery installation, see Battery Information for detailed instructions on replacing the battery.
Memory	96,000 measurements
Full Memory Download Time	Approximately 45 seconds; may take longer the farther the device is from the logger
Wetted Materials	Polypropylene case, EPDM O-ring
Dimensions	3.35 x 5.64 x 1.8 cm (1.32 x 2.22 x 0.69 inches)
Weight	12.75 g (0.45 oz)
Environmental Rating	IP68

Compliance Marks



## Contact Us

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

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- ▶ Call 1-508-759-9500
- ▶ In U.S. toll free 1-800-564-4377
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Technical Support (8am to 6pm 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

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