



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

Purchase an MX Data Plan to get more out of your data and access it from anywhere using the LI-COR Cloud® software platform (formerly HOBOLink)! You can also purchase the MX Gateway station, which automatically sends your logger's data to LI-COR Cloud (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 buoy lines, we recommend using the included Mounting Boot (BOOT-MX2201-2202). This boot is also useful for mounting loggers so that they can be easily removed for service. Purchase additional mounting boots as needed!

Features:

- New light sensor offers more accurate light intensity readings for light in the visible light spectrum
- Convenient wireless setup and download via Bluetooth
- Mounting boot included (1)
- Large memory stores 96,000 measurements
- Waterproof to 30 meters (100 feet)
- User-replaceable battery
- Mounting tabs for fast, easy deployment
- LED indicates when temperature exceeds set threshold
- Works with free HOBOnnect app
- $\pm 0.5^{\circ}\text{C}$ ($\pm 0.9^{\circ}\text{F}$) temperature accuracy and $\pm 10\%$ light accuracy typical for direct sunlight

Technical Specifications:

Temperature Sensor (MX2201 and Mx2202)

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)
Drift	: <0.1°C per year (<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 (0 to 15,582 lum/ft ²)
Accuracy	: ±10% typical for direct sunlight

Logger

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
Time Accuracy	: ±1 minute per month at 25°C (±1 minute per month at 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 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