

MX2502

HOBO MX Underwater PAR Data Logger



Supported Measurements

Light (water), Tilt/Acceleration (water), Light Intensity, PAR, Temperature, Tilt

Features

- Provides the highest accuracy data using the LI-192 Quantum sensor, the industry standard for logger calibration with built-in measurement averaging to filter out environmental noise
- Easily attaches to available wipers for keeping the sensor window clear and mounts on available wipers
- Streamlined logger configuration, data offload, data visualization and data sharing, all within the free HOBObconnect app
- Convenient and reliable wireless data offload eliminates having to open loggers, connect cables or bring laptops to wet locations
- Data quality control from a tilt sensor and a water-detect sensor
- Provides PAR data for both water and air calibrations
- Simplifies data management and reduces the amount of equipment you need to offload data with single platform
- Easy data consolidation, access, and visualization with LI-COR Cloud and an optional MX data plan
- Supports optimal aquaculture site selection and design
- Rugged and reliable housing and sensor materials provide years operation in harsh aquatic environments.
- Recalibration options: LI-COR for factory recalibration service or self-calibrating against a precision reference

Contact Us

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

- Email sales@onsetcomp.com
- Call 1-508-759-9500
- In U.S. toll free 1-800-564-4377
- Fax 1-508-759-9100

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

- Contact Product Support www.onsetcomp.com/support/contact
- Call 1-508-759-9500
- In U.S. toll free 1-877-564-4377

HOBO MX Underwater PAR Data Logger (MX2502) Specifications

Sensors

Measured parameters: PAR with water calibration, PAR with air calibration, temperature, and tilt angle

Photosynthetically Active Radiation (PAR) Range: 0-3000 $\mu\text{mol}/\text{m}^2/\text{s}$ (full sunlight)
Accuracy: $\pm 5\%$ typical (LI-192 factory calibration)

Wavelengths 400-700 nm with close-to-ideal PAR response

Cosine Correction Optimized for both underwater and atmospheric use

Temperature Range: -20 to 50 $^{\circ}\text{C}$ (-4 to 122 $^{\circ}\text{F}$) non-freezing water
Accuracy: ± 0.2 $^{\circ}\text{C}$
Resolution: 0.1 $^{\circ}\text{C}$

Tilt Angle Range: 0 to 180 $^{\circ}$ from vertical
Accuracy: $\pm 5^{\circ}$
Resolution: 1 $^{\circ}$

Logger

Logging Interval User-selectable from 1 second up to 18 hours

Memory Capacity 195,000 sets of measurements

Water Detect Events Records events when logger is submerged and when it emerges from the water

Wireless Range Up to 30.5 m (100 feet) line-of-sight via Bluetooth Low Energy for wireless data download

Enclosure Rating IP68 up to 30m

Battery Powered by a factory-replaceable battery with 6-year life at nominal logging interval with Bluetooth off

Operating Environment -20 to 50C; fresh or saltwater; cannot be frozen in ice

Dimensions Diameter: 1.695" ; Length: 7.190"

Weight 274 g (0.604 lb.) Logger only; With packaging 495 g (1.091 Lb.)