



# HOBO Data Loggers MX2205 TidbiT External Temperature Logger Instruction Manual

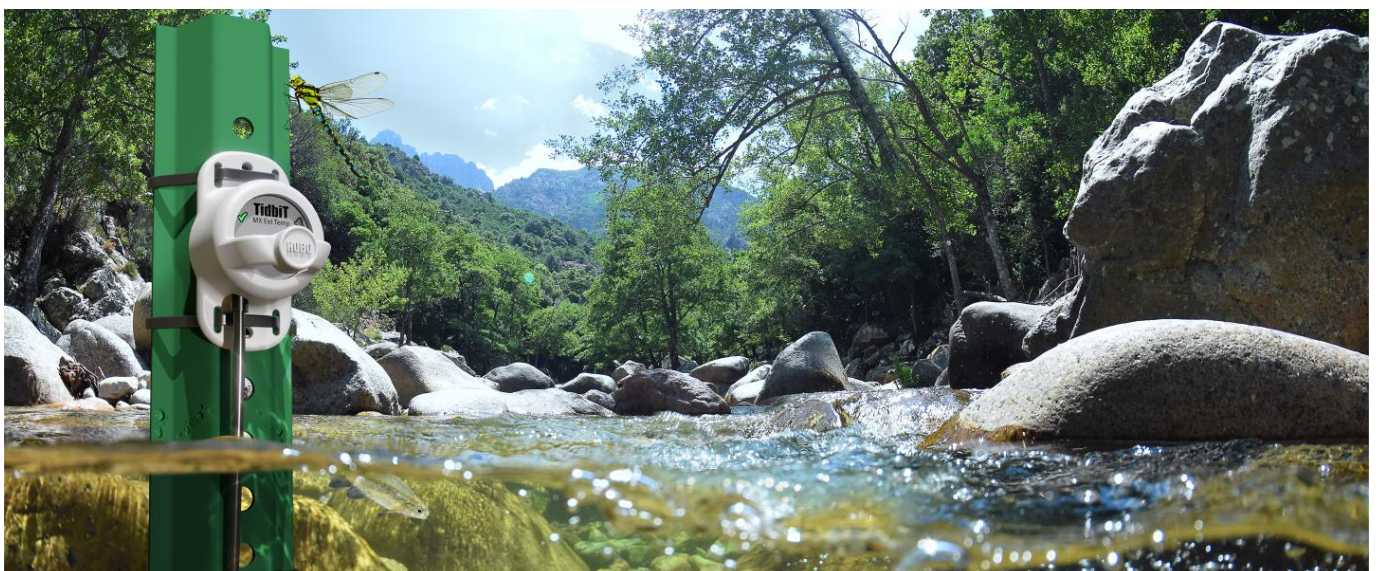
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## HOBO Data Loggers MX2205 TidbiT External Temperature Logger



## Product Information

|                     |  |
|---------------------|--|
| <b>Product Name</b> | HOBO MX TidbiT Ext Temp Logger   |
| <b>Manufacturer</b> | Test Equipment Depot   |
| <b>Address</b>      | 5 Commonwealth Ave Woburn, MA 01801  |
| <b>Phone</b>        | 781-665-1400   |
| <b>Toll Free</b>    | 1-800-517-8431   |
| <b>Website</b>      | <a href="http://www.TestEquipmentDepot.com">www.TestEquipmentDepot.com</a> |

## Product Usage Instructions

- **Model:**

MX2205 Ext Temp

- **Items included:**

Protective boot

- **Required Items:**

- HOBObconnect app
- Mobile device with Bluetooth and iOS, iPadOS®, or Android™, or a Windows computer with a native BLE adapter or supported BLE dongle

HOBO MX TidbiT Ext Temp logger measures temperature in streams, lakes, coastal habitats, and soil environments. Housed in a protective boot, this rugged logger is designed for extended deployments in fresh water at depths up to 30.5m (100 ft). The logger uses Bluetooth® Low Energy (BLE) for wireless communication with a phone, tablet, or computer. Using the HOBObconnect® app, you can easily configure the logger, download logged data to your mobile device or computer, or automatically upload the data to HOBOLink® for further analysis. You can also configure the logger to calculate statistics, set up alarms to trip at specific thresholds, or enable burst logging in which data is logged at a faster interval when sensor readings are above or below certain limits.

## Specifications

|  |  |
|--|--|
| <b>Temperature Sensors Range</b>                 | Probe: -40 to 100°C (-40 to 212°F), with tip and cable immersion in fresh water up to 50° C (122°F) for one year<br>Logger: -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)                       |
| <b>Accuracy</b>                                  | Probe: ±0.25°C from -40 to 0°C (±0.45 from -40 to 32°F)<br>±0.2°C from 0 to 70°C (±0.36 from 32 to 158°F)<br>±0.25°C from 70 to 100°C (±0.45 from 158 to 212°F) Logger: ±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) |
| <b>Resolution</b>                                | 0.01°C (0.018°F)   |
| <b>Drift</b>                                     | 0.01°C (0.018°F)   |
| <b>Response Time (typical, to 90% of change)</b> | Probe: 3 minutes in air moving 1 m/sec; 20 seconds in stirred water Logger: 15 minutes typical to 90% in air moving 1 m/s, unmounted; 4 minutes typical to 90% in stirred water, unmounted   |

|   |   |
|---|---|
| <b>Logger Operating Range</b>                   | -20° to 70°C (-4° to 158°F)   |
| <b>Buoyancy (Fresh Water)</b>                   | 14.26 g (0.50 oz) negative  |
| <b>Waterproof</b>                               | To 30.5 m (100 ft)  |
| <b>Radio Power</b><br><b>Transmission Range</b> | 1 mW (0 dBm)<br>Approximately 30.5 m (100 ft) line-of-sight   |
| <b>Wireless Data Standard</b>                   | Bluetooth Low Energy (Bluetooth Smart)  |
| <b>Logging Rate</b>                             | 1 second to 18 hours  |
| <b>Time Accuracy</b>                            | ±1 minute per month at 25°C (77°F)  |
| <b>Battery</b>                                  | CR2477 3V lithium, non-replaceable  |
| <b>Battery Life</b>                             | 3 years, typical at 25°C (77°F) with logging interval of 1 minute and Bluetooth Always Off disabled in software.<br>5 years, typical at 25°C (77°F) with logging interval of 1 minute and Bluetooth Always Off enabled in the app.<br>Faster logging intervals and statistics sampling intervals, burst logging, remaining connected with the app, excessive downloads, and paging may affect battery life. |
| <b>Memory</b>                                   | 96,000 measurements   |
| <b>Full Memory Download Time</b>                | Approximately 45 seconds; may take longer the farther the device is from the logger.  |
| <b>Wetted Materials</b>                         | Epoxy case, Santoprene (TPE) boot   |
| <b>Dimensions</b>                               | Logger housing: 4.06 x 6.99 x 3.51 cm (1.6 x 2.75 x 1.38 inches) External temperature sensor diameter: 0.53 cm (0.21 in.) External sensor cable length: 2 m (6.56 ft.)  |
| <b>Weight</b>                                   | 70.0 g (2.47 oz.)   |
| <b>Environmental Rating</b>                     | IP68  |




The CE Marking identifies this product as complying with all relevant directives in the European Union (EU).



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## Documents / Resources

|   |   |
|---|---|
|  | <a href="#">HOB0 Data Loggers MX2205 TidbiT External Temperature Logger</a> [pdf] Instruction Manual MX2205, MX2205 TidbiT External Temperature Logger, TidbiT External Temperature Logger, External Temperature Logger, Temperature Logger, Logger |
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## References

-  [Welcome to the Test Equipment Depot, your test equipment supplier of all the best brands.](#)

Manuals+.