



## HOBO<sup>®</sup> MX1101 Data Logger

### Temperature/Relative Humidity

Onset's HOBO MX1101 data logger measures and transmits temperature and relative humidity data wirelessly to mobile devices or Windows computers via Bluetooth Low Energy (BLE) technology.

The self-contained wireless data logger works with your mobile device or Windows computer and Onset's free HOBOnnect app so you can configure the logger and read out data over a 100-foot range, with no other dedicated equipment required. Using Onset's free app, you can also view data in graphs, check the operational status of loggers, configure alarm notifications, and share data files.

Add the MX Gateway for remote access to your data in Onset's cloud-based HOBOLink software.

You can download the HOBOnnect app here:

#### Key Advantages:

- Wireless communication via Bluetooth Low Energy (BLE) technology
- Easy to deploy and offload using the free HOBOnnect app
- Visual and audible high & low alarm thresholds
- Stores 84,000 measurements
- Accuracy: +/- 0.2C and +/- 2%RH
- Find me/pager feature
- Patented connectivity technology



## HOBO MX1101 Data Logger Specifications

### Temperature Sensor

|            |                                                     |
|------------|-----------------------------------------------------|
| Range      | -20° to 70°C (-4° to 158°F)                         |
| Accuracy   | ±0.21°C from 0° to 50°C (±0.38°F from 32° to 122°F) |
| Resolution | 0.024°C at 25°C (0.04°F at 77°F)                    |
| Drift      | <0.1°C (0.18°F) per year                            |

### RH Sensor\*

|            |                                                                                                                                          |
|------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Range      | 1% to 90%, non-condensing                                                                                                                |
| Accuracy   | ±2.0% from 20% RH to 80% RH typical to a maximum of ±4.5% including hysteresis at 25°C (77°F); below 20% RH and above 80% RH ±6% typical |
| Resolution | 0.01%                                                                                                                                    |
| Drift      | <1% per year typical                                                                                                                     |

### Response Time

|             |                                                 |
|-------------|-------------------------------------------------|
| Temperature | 7:30 minutes in air moving 1 m/s (2.2 mph)      |
| RH          | 20 seconds to 90% in airflow of 1 m/s (2.2 mph) |

### Logger

|                           |                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Radio Power               | 1 mW (0 dBm)                                                                                                                                                                                                                                                                                                                                           |
| Transmission Range        | Approximately 30.5 m (100 ft) line-of-sight                                                                                                                                                                                                                                                                                                            |
| Wireless Data Standard    | Bluetooth Smart (Bluetooth Low Energy, Bluetooth 4.0)                                                                                                                                                                                                                                                                                                  |
| Logger Operating Range    | -20° to 70°C (-4° to 158°F); 0 to 95% RH (non-condensing)                                                                                                                                                                                                                                                                                              |
| Logging Rate              | 1 second to 18 hours                                                                                                                                                                                                                                                                                                                                   |
| Logging Modes             | Fixed interval (normal, statistics) or burst                                                                                                                                                                                                                                                                                                           |
| Memory Modes              | Wrap when full or stop when full                                                                                                                                                                                                                                                                                                                       |
| Start Modes               | Immediate, push button, date & time, or next interval                                                                                                                                                                                                                                                                                                  |
| Stop Modes                | When memory full, push button, date & time, or after a set logging period                                                                                                                                                                                                                                                                              |
| Restart Mode              | Push button                                                                                                                                                                                                                                                                                                                                            |
| Time Accuracy             | ±1 minute per month at 25°C (77°F)                                                                                                                                                                                                                                                                                                                     |
| Battery Life              | 1 year, typical with logging interval of 1 minute. Faster logging and/or statistics sampling intervals, entering burst logging mode, and remaining connected with the app will impact battery life. Excessive readouts, audible alarms, and paging all impact battery life. Visual alarms and other events can have a marginal impact on battery life. |
| Battery Type              | Two AAA 1.5 V alkaline batteries, user replaceable                                                                                                                                                                                                                                                                                                     |
| Memory                    | 128 KB (84,650 measurements, maximum)                                                                                                                                                                                                                                                                                                                  |
| Full Memory Download Time | Approximately 60 seconds; may take longer the further the device is from the logger                                                                                                                                                                                                                                                                    |
| LCD                       | LCD is visible from 0° to 50°C (32° to 122°F); the LCD may react slowly or go blank in temperatures outside this range                                                                                                                                                                                                                                 |
| Size                      | 3.66 x 8.48 x 2.29 cm (1.44 x 3.34 x 0.9 in.)                                                                                                                                                                                                                                                                                                          |
| Weight                    | 56 g (1.98 oz)                                                                                                                                                                                                                                                                                                                                         |
| Environmental Rating      | IP50                                                                                                                                                                                                                                                                                                                                                   |



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



## Contact Us

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

- ▶ Email [sales@onsetcomp.com](mailto:sales@onsetcomp.com)
- ▶ 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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