

MX1101

HOBO Temperature/Relative Humidity Data Logger



Bluetooth wireless monitoring for indoor environments

Measures and transmits temperature and relative humidity data wirelessly to mobile devices or Windows computers via Bluetooth technology.

Important Information

Requires a compatible mobile device or Windows computer and the HOBObconnect app. System requirements can be found at the bottom of the HOBObconnect software page . Want cloud storage and access to the powerful tools of LI-COR Cloud™ IoT software (fka HOBOblink)? Add an MX Data Plan!



Compatible with
HOBObconnect Monitoring App
LI-COR Cloud MX Data Plan

Supported Measurements

Dew Point, Relative Humidity, Temperature

Features

- Wireless communication via Bluetooth technology
- Easy to deploy and offload using the free HOBObconnect 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

What's in the box

- HOBO MX1101 Temp/RH Data Logger
- Command™ strip
- Double-sided tape
- Hook & loop strap
- Two AAA 1.5 V alkaline batteries

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 Temperature/Relative Humidity Data Logger (MX1101) Specifications

Temperature Sensor

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

RH Sensor*

Range	1% to 90% (non-condensing)
Accuracy	±2% from 20% to 80% typical to a maximum of ±4.5% including hysteresis at 25°C (77°F); below 20% and above 80% ±6% typical
Resolution	0.01%
Drift	<1% per year typical

Response Time

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

Logger

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)
Logger Operating Range	-20° to 70°C; 0 to 95% RH (non-condensing) (-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 (±1 minute per month at 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; (LCD is visible from 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

Notices

* Per RH sensor manufacturer data sheet

