

HOBO MX1101 Temperature/Relative Humidity Data Logger

Part # MX1101

The HOBO MX1100 data logger requires a compatible mobile device and the [HOBOconnect](#) app. System requirements for the app can be found at the bottom of the [HOBOconnect software page](#).

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

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 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