

MX100

HOBO Temperature Data Logger

Bluetooth Temperature Monitoring

A low-cost, splash-proof, Bluetooth-enabled data logger that measures and transmits temperature data wirelessly to mobile devices or Windows computers.

Important Information

Requires a compatible mobile device or Windows computer running the HOBObconnect app. System requirements for the app can be found at the bottom of the HOBObconnect software page.



Compatible with
HOBObconnect Monitoring App



Supported Measurements

Temperature

Features

- Set up and offload loggers wirelessly from your mobile device or Windows computer
- Exceptional value for the convenience of a Bluetooth communication logger
- Splash-proof design enables use in damp environments and spray-down applications
- Easy to deploy, offload, and share temperature data using the HOBObconnect app
- Visual alarms on the logger display and mobile app keep you notified of problems
- Set up and start monitoring in minutes!

What's in the box

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 Data Logger (MX100) Specifications

Temperature Sensor

Range	-30° to 70°C (-22° to 158°F)
Accuracy	±1.0°C from -30° to -5°C (±1.8°F from -22° to 23°F) ±0.5°C from -5° to 50°C (±0.9°F from 23° to 122°F) ±1.0°C from 50° to 70°C (±1.8°F from 122° to 158°F)
Resolution	0.04°C (0.072°F)
Drift	<0.01°C per year (0.018°F per year)
Response Time	6 minutes typical to 90% in open air moving 1 m/s, unmounted

Logger

Logger Operating Range	-30° to 70°C (-22° to 158°F)
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)
Logging Rate	1 second to 18 hours
Time Accuracy	±1 minute per month at 25°C (±1 minute per month at 77°F)
Battery	CR2450 3V lithium, not replaceable
Battery Life	1 year, typical with logging interval of 1 minute and Bluetooth Always On enabled; 2 years, typical with logging interval of 1 minute and Bluetooth Always On disabled. Faster logging intervals, remaining connected with the app, excessive downloads, and paging may impact battery life.
Memory	30,000 measurements
Full Memory Download Time	Approximately 30 seconds; may take longer the farther the device is from the logger
Dimensions	6.9 x 4.5 x 1.1 cm (2.71 x 1.76 x 0.42 inches)
Weight	25.5 g (0.90 oz)
Environmental Rating	IP67

CE Compliance Mark unknown

United States FCC Mark unknown

Australia-New Zealand Regulatory Compliance Mark (RCM)