![Onset HOBO Data Loggers logo]

HOBO® MX1101 Data Logger

Bluetooth low energy temperature and relative humidity data logger

Onset's HOBO MX1101 is a Low Energy (BLE) data logger that measures and transmits temperature and relative humidity data wirelessly to mobile devices via BLE Smart technology.
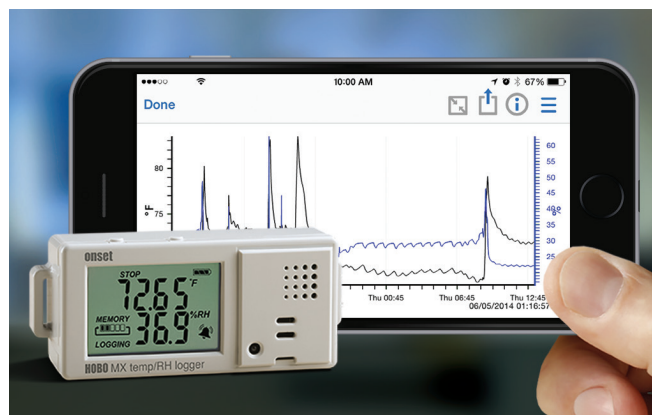
The self-contained wireless data logger, which works with Onset's free HOBOmobile® app for logger setup and data management, enables users to access data anytime from their mobile device over a 100-foot range. It communicates instantly and enables you to "cut the cord" by requiring no dedicated equipment beyond a mobile device for configuring the logger or reading out data. This saves considerable time and money.

Supported Measurements:
Temperature, Relative Humidity, Dew Point

Key Advantages:

• BLE enabled for use with mobile devices
• No internet access, cables, or computer required
• Download data any time from 100 ft. away
• Audible and visual alarms keep you notified of problems
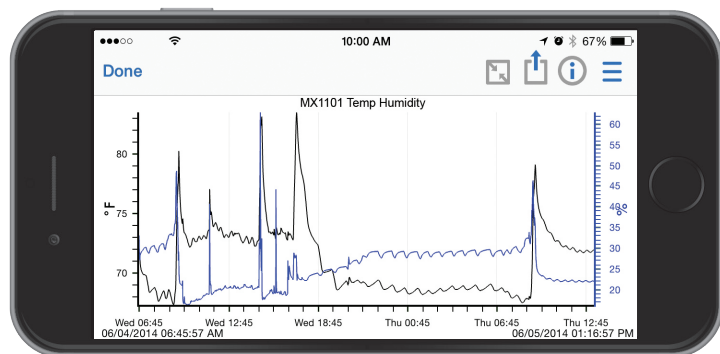• Easily share data and graph images for analysis

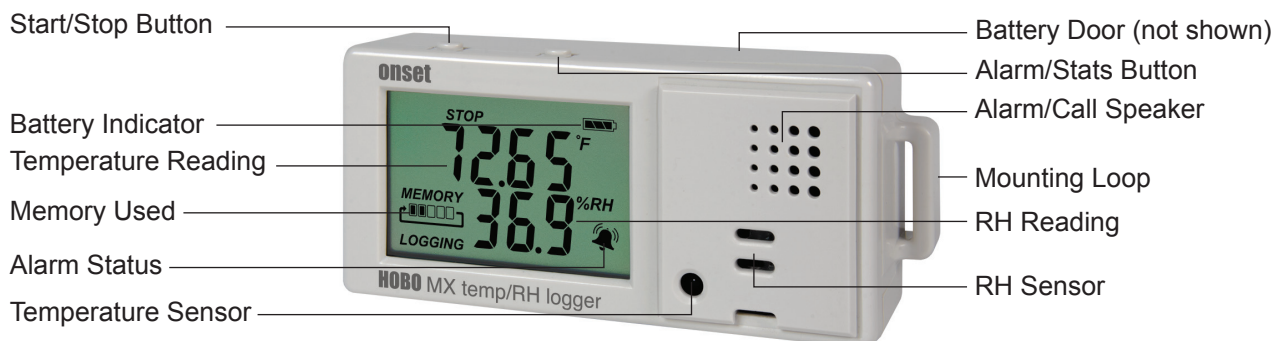**Minimum System Requirements:**

HOBOmobile app   Mobile device*

Using Onset's free HOBOmobile® app, you can view data in graphs, check the operational status of loggers, configure alarm notifications, and share data files.

The logger is ideal for use in a range of building monitoring applications, such as tracking storage temperatures in a food warehouse, keeping tabs on humidity levels in a museum, or investigating occupant comfort complaints in an office building.

Download on the App Store

ANDROID APP ON Google play

*Mobile device with: -iOS 8.0, 8.1, 8.2, 8.3 -Bluetooth 4.0

HOBO® MX1101 Data Logger

Start/Stop Button

Battery Indicator
Temperature Reading
Memory Used
Alarm Status
Temperature Sensor

Battery Door (not shown)
Alarm/Stats Button
Alarm/Call Speaker

Mounting Loop
RH Reading

RH Sensor

Part number	MX1101

Memory	84,650 Measurements
Sampling Rate	1 second to 18 hours, user selectable
Battery Life	1 year, typical with logging rate of 1 minute and sampling interval of 15 seconds or greater, user replaceable, 2AAA
Dimensions	3.66 x 8.48 x 2.29 cm (1.44 x 3.34 x 0.9 in.)
	Temperature
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)
Response Time	7.30 minutes in air moving 1 m/s (2.2 mph)
	Relative Humidity
Range	1% to 95%
Accuracy	±2% from 20% to 80% at 25°C (77°F)
Hysteresis	±2% RH
Resolution	0.01% at 25°C (77°F)
Response Time	20 seconds to 90% in airflow of 1 m/s (2.2 mph)
CE compliant	Yes
Mobile Device Compatibility	iOS 7.1 or later, or Android 4.4 or later, and Bluetooth 4.0 or later
Bluetooth Compatibility	Bluetooth 4.0 or later (Bluetooth Low Energy, Bluetooth Smart)

HOBO® UX90 Loggers

Next-generation time-of-use loggers for fast, reliable monitoring

The award-winning HOBO UX90 Series is the industry's lowest-cost, most comprehensive family of "time-of-use" data loggers. The new toolbox suite includes LCD-display data loggers for measuring motor on/off status, electronic pulses, state changes, and occupancy and light-use patterns.

Leveraging patent-pending technology, HOBO UX90 data loggers streamline energy audits and make field deployment fast and reliable.

Supported Measurements: State, Pulse, Event, Runtime, Light On/Off, Motor On/Off, Occupancy/Light

Key Advantages:

• LCD displays Time On or % On, providing instant feedback
• Auto-calibration & signal strength indicator ensure proper deployment
• 84k or 346k measurement capacity enables longer deployments
• Rare-earth magnets, 3M Command™ Strips, or mounting tabs for reliable mounting
• Flexible logger Start and Stop options
• HOBOware Pro allows for easy setup of hundreds of loggers

Minimum System Requirements:

Software   USB cable*

For the most accurate readings, use of Light Pipe UX90-LIGHT-PIPE-1 is recommended to eliminate the effects of ambient light.

Part number	UX90-001 (State)	UX90-002 (Light On/Off)	UX90-004 (Motor On/Off)	UX90-005 (Occupancy/Light)	UX90-006 (Occupancy/Light)
Memory		84,000 measurements			
Part number	UX90-001/M	UX90-002M	UX90-004M	UX90-005M	UX90-006M
Memory		346,000 measurements			
INTERNAL SENSOR					
Maximum state, event, runtime frequency	1 Hz	--	--	--	--
Light threshold	--	65 lux	--	65 lux	
Light type	--	LED, CFL, fluorescent, HID, incandescent, natural	--	LED, CFL, fluorescent, HID, incandescent, natural	
AC magnetic field threshold	--	--	> 40 mGauss at 60 Hz	--	--
Maximum sensor detection range	--	--	--	5 m (15.4 ft)	12 m (39.4 ft)
EXTERNAL INPUT					
External contact input	solid state closure or logic driven voltage output	--	solid state closure	--	--
Maximum state, event, runtime frequency	1 Hz	--	1 Hz	--	--
Maximum Pulse Frequency	50 Hz	--	--	--	--
Battery life		1 year typical, user replaceable, CR2032			
Operating range		-20º to 70ºC (-4º to 158ºF); 0-95% RH (non-condensing)			
Dimensions	3.66 x 5.94 x 1.52 cm (1.44 x 2.34 x 0.6 in)	3.66 x 8.48 x 1.52 cm (1.44 x 3.34 x 0.6 in)		3.66 x 8.48 x 2.36 cm (1.44 x 3.34 x 0.93 in)	3.66 x 8.48 x 2.87 cm (1.44 x 3.34 x 1.13 in)
CE compliant		Yes			