HOBO® MX1105 Data Logger

4-Channel Analog

The HOBO MX1105 multi-channel data logger, with four-channel inputs, measures and transmits data wirelessly from a variety of sensors to your mobile device via Bluetooth Low Energy (BLE) technology.

This self-contained wireless data logger lets you use your mobile device and Onset's free HOBOconnect app to access data, at any time, over a 100-foot range via Bluetooth Low Energy (BLE) technology. You can configure the logger, read out data, view data in graphs, check the operational status of loggers, configure alarm notifications, and share data files – all with no dedicated equipment beyond a mobile device. And if used with the new MX Gateway, you can remotely access your data in Onset's cloud-based HOBOlink® software. The MX1105 is ideal for energy audits, building commissioning studies, equipment scheduling, and more.

You can download the HOBOconnect app here:

Key Advantages:

- BLE communications for wireless data offload
- 16-bit resolution for highly accurate measurements
- Stores 1.9 million measurements for longer deployments between offloads
- New Self-Describing sensors with intelligent configuration for fast deployment
- Compatible with existing sensors for a wide range of indoor monitoring
- Audible and visual LCD-screen alarms notify you if a sensor becomes unplugged or a reading exceeds set thresholds

HOBO MX1105 Data Logger Specifications

Logger with Cable Type	SD-MA-420 or CABLE-4-20mA	SD-VOLT-2.5 or CABLE-2.5-STEREO	SD-VOLT-05 or CABLE-ADAP5	SD-VOLT-10 or CABLE-ADAP10	SD-VOLT-24 or CABLE-ADAP24
Measurement Range	0 to 20.1 mA	0 to 2.5 V	0 to 5.0 V	0 to 10 V	0 to 24 V
Accuracy	±0.001 mA ±0.2% of reading	±0.1 mV ±0.1% of reading	±0.2 mV ±0.3% of reading	±0.4 mV ±0.3% of reading	±1.0 mV ±0.3% of reading
Resolution	0.3 µA	40 µV	80 µV	160 µV	384 µV
Logger					
Operating Range	-20° to 70°C (-4° to 158°F)				
Radio Power	1 mW (0 dBm)				
Transmission Range	Approximately 30.5 m (100 ft) line-of-sight				
Wireless Data Standard	Bluetooth Low Energy (Bluetooth Smart)				
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 Type	Two AAA 1.5 V alkaline batteries, user 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; and temperatures between 0° and 50°C (32° and 122°F). Faster logging intervals and statistics sampling intervals, burst logging, remaining connected with the app, excessive downloads, and paging may impact battery life.				
Memory	4 MB (1.9 million measurements, maximum)				
Full Memory Download Time	Approximately 4 to 15 minutes depending on the mobile device; 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	11.28 x 5.41 x 2.92 cm (4.44 x 2.13 x 1.15 in.)				
Weight	123 g (4.34 oz)				
Environmental Rating	IP54				
CE	The CE Marking identifies this product as complying with all relevant directives in the European Union (EU).				

*Per RH sensor manufacturer data sheet

Contact Us

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