



# HOBO® MX1102 Logger

## Bluetooth Smart-enabled CO<sub>2</sub>, temperature and relative humidity data logger

Onset's HOBO MX1102 CO<sub>2</sub> logger makes it more convenient than ever to measure and record CO<sub>2</sub> in buildings and other non-condensing environments. It measures CO<sub>2</sub> from 0 – 5,000 parts per million (ppm) – and our free HOBOMobile app allows you to access data right from your mobile phone or tablet within a 100-foot range.

The MX1102 also features a USB port so it can be used with a computer running HOBOWare Pro graphing and analysis software.

### Supported Measurements:

CO<sub>2</sub>, Temperature, Relative Humidity, Dew Point

### Key Advantages:

- Wireless communication via Bluetooth Low Energy (BLE)
- Six-month battery life at 5-minute CO<sub>2</sub> logging rate
- Easy to deploy and offload using free HOBOMobile App
- Visual and audible high & low alarm thresholds
- Self-calibrating CO<sub>2</sub> sensor technology ensures optimal accuracy at lower maintenance costs

### Minimum System Requirements:



HOBOMobile

Mobile device\*



\*iOS 8.3, 8.4 & 9.0, or Android 4.4, 5.0, 5.1 and Bluetooth 4.0 or later



\*Mobile device with: iOS 8.3, 8.4 & 9.0, and Bluetooth 4.0 or later  
The HOBO MX1102 is also compatible with HOBOWare Free, and Pro

► For complete information and accessories, please visit: [www.onsetcomp.com](http://www.onsetcomp.com)

<b>Part number</b>	<b>MX1102</b>
<b>Memory</b>	84,650 Measurements
<b>Logging Rate</b>	1 second to 18 hours
<b>Battery Life</b>	6 months, typical with logging and sampling intervals of 5 minutes or slower; 6 months or less with logging and sampling intervals faster than 5 minutes while logging CO <sub>2</sub> , user replaceable, 4AA
<b>Dimensions</b>	7.62 x 12.95 x 4.78 cm (3.0 x 5.1 x 1.88 inches)
<b>CO<sub>2</sub></b>	
<b>Range</b>	0 to 5,000 ppm
<b>Accuracy</b>	±50 ppm ±5% of reading at 25°C (77°F), less than 70% RH and 1,013 mbar
<b>Warm-up Time</b>	15 seconds
<b>Calibration</b>	Auto or manual to 400 ppm
<b>Non-linearity</b>	<1% of FS
<b>Temperature</b>	
<b>Range</b>	0° to 50°C (32° to 122°F)
<b>Accuracy</b>	±0.21°C from 0° to 50°C (±0.38°F from 32° to 122°F)
<b>Resolution</b>	0.024°C at 25°C (0.04°F at 77°F)
<b>Response Time</b>	12 minutes to 90% in airflow of 1 m/s (2.2 mph)
<b>Relative Humidity</b>	
<b>Range</b>	1% to 70% RH when CO <sub>2</sub> sensor is enabled (non-condensing) 1% to 90% RH when CO <sub>2</sub> sensor is disabled (non-condensing)
<b>Accuracy</b>	±2% from 20% to 80% typical at 25°C (77°F)
<b>Hysteresis</b>	±2% RH
<b>Resolution</b>	0.01% at 25°C (77°F)
<b>Drift</b>	<1% per year typical
<b>Response Time</b>	<b>CO<sub>2</sub></b> : 1 minute to 90% in airflow of 1 m/s (2.2 mph), <b>Temp</b> : 12 minutes to 90% in airflow of 1 m/s (2.2 mph), <b>RH</b> : 1 minute to 90% in airflow of 1 m/s (2.2 mph)
<b>CE compliant</b>	Yes
<b>Mobile Device Compatibility</b>	iOS 8.3, 8.4 & 9.0, and Bluetooth 4.0 or later
<b>Bluetooth Compatibility</b>	Bluetooth 4.0 or later (Bluetooth Low Energy, Bluetooth Smart)

Note: Temp & RH NIST certification services available for this product. Please visit [onsetcomp.com](http://onsetcomp.com), or call us at 1-800-564-4377.

## Contact Us

Sales (8am to 5pm ET, Monday through Friday)

- Email [sales@onsetcomp.com](mailto:sales@onsetcomp.com)
- Call 1-508-759-9500
- In U.S. toll free 1-800-564-4377
- Fax 1-508-759-9100

Technical Support (8am to 8pm ET, Monday through Friday)

- Contact Product Support [onsetcomp.com/support/contact](http://onsetcomp.com/support/contact)
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