

HOBO MX1102 Logger

Bluetooth Low Energy CO₂, temperature, and relative humidity data logger



Onset's HOBO MX1102 CO₂ logger makes it more convenient than ever to measure and record CO₂ in buildings and other non-condensing environments. It measures CO₂ 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.

Key Advantages:

- Wireless communication via BLE technology
- Six-month battery life at 5-minute CO₂ logging rate
- Easy to deploy & offload using free HOBOMobile App
- Visual and audible high & low alarm thresholds
- Self-calibrating CO₂ sensor technology ensures optimal accuracy at lower maintenance costs

Supported Measurements:

CO₂, Temperature, Relative Humidity, Dew Point



HOBOMobile
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Mobile device*

► For complete information and accessories, please visit: www.onsetcomp.com

Part number	MX1102
Memory	84,650 Measurements
Logging Rate	1 second to 18 hours
Battery Life	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 ₂ , user replaceable, 4AA
Dimensions	7.62 x 12.95 x 4.78 cm (3.0 x 5.1 x 1.88 inches)
CO₂	
Range	0 to 5,000 ppm
Accuracy	±50 ppm ±5% of reading at 25°C (77°F), less than 70% RH and 1,013 mbar
Warm-up Time	15 seconds
Calibration	Auto or manual to 400 ppm
Non-linearity	<1% of FS
Temperature	
Range	0° to 50°C (32° to 122°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	12 minutes to 90% in airflow of 1 m/s (2.2 mph)
Relative Humidity	
Range	1% to 70% RH when CO ₂ sensor is enabled (non-condensing) 1% to 90% RH when CO ₂ sensor is disabled (non-condensing)
Accuracy	±2% from 20% to 80% typical at 25°C (77°F)
Hysteresis	±2% RH
Resolution	0.01% at 25°C (77°F)
Drift	<1% per year typical
Response Time	CO₂: 1 minute to 90% in airflow of 1 m/s (2.2 mph), Temp: 12 minutes to 90% in airflow of 1 m/s (2.2 mph), RH: 1 minute to 90% in airflow of 1 m/s (2.2 mph)
CE compliant	Yes
Mobile Device Compatibility	*iOS 8.3, 8.4 & 9.0, or Android 4.4, 5.0, 5.1 and Bluetooth 4.0 or later
Bluetooth Compatibility	Bluetooth 4.0 or later (Bluetooth Low Energy, Bluetooth Smart)



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