ONSET

HOBO® MX1102 Logger

Bluetooth Smart-enabled CO_2, temperature and relative humidity data logger

Onset's HOBO MX1102 CO_2 logger makes it more convenient than ever to measure and record CO_2 in buildings and other non-condensing environments. It measures CO_2 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_2, Temperature, Relative Humidity, Dew Point

Key Advantages:

- Wireless communication via Bluetooth Low Energy (BLE)
- Six-month battery life at 5-minute CO_2 logging rate
- Easy to deploy and offload using free HOBOmobile App
- Visual and audible high & low alarm thresholds
- Self-calibrating CO_2 sensor technology ensures optimal accuracy at lower maintenance costs

Minimum System Requirements:

HOBO
HOBOmobile

Mobile device

*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

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)
	CO_2
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% - 90%RH, non-condensing
Accuracy	±2.0% from 20%RH to 80%RH typical to a maximum of ±4.5% including hysteresis at 25˚C (77˚F); below 20%RH and above 80%RH ±6% typical
Hysteresis	±2%RH
Resolution	0.01%RH
Drift	<1%RH per year typical
Response Time	**CO_2**: 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)

Note: Temp & RH NIST certification services available for this product.

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