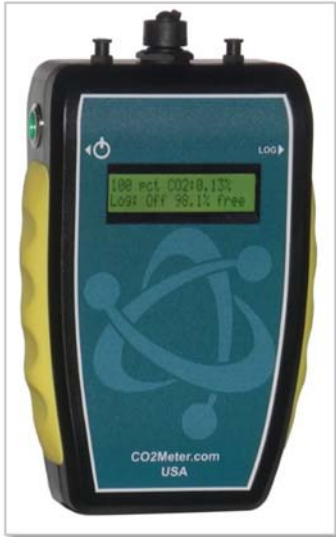


# Datasheet: CO2 Data Loggers



This portable battery-powered CO2Meter, Inc. meter is designed to measure carbon dioxide (CO2) in real-time in inaccessible areas for applications like fermentation vats & barrels, biological incubators, and CO2 leak detection. Its internal memory allows the user to record CO2 concentration level data over time.

## Features

- Portable meter with lightweight handheld easy-grip design
- Various measuring ranges to choose from
- Back-lit LCD display with programmable CO2 level-responsive 3-color alarm
- Built-in 1,000-hour micro pump
- Fully compatible with Windows 7, 8, XP or later<sup>1</sup>
- Includes impact-resistant case, power supply, tubing/filter kit, and USB cable
- Records up to 60,000 data points in internal memory

## CO2 Sensor Ratings

	1% CO2	5% CO2	10% CO2	30% CO2	60% CO2	100% CO2
Measurement Range.....	0-10,000 ppm	0-50,000 ppm	0-100,000 ppm	0-30% of volume	0-60% of volume	0-100% of volume
Repeatability.....	± 20 ppm, ± 1 % of measured value		± 0.1% vol. ± 2 % of measured value			
Accuracy.....	± 30 ppm, ± 5 % of value		± 70 ppm ± 5% of value	± 0.5% vol. ± 3 % of measured value		
Detection Method.....	Sampling (drawn through tubing or inlet)					
Response Time (T1/e).....	< 20 seconds tube IN/OUT (0.2 l/min gas flow)					
Life Expectancy.....	> 15 years					
Pressure Dependence.....	± 1.6% reading deviation per k Pa (from atmospheric pressure, 100 k Pa) / 0.13% of reading per mm Hg					

## General Performance

Operating Temperature Range.....	0 to +50 °C
Operating Humidity Range.....	0 to 95% RH (non-condensing)
Maintenance Interval.....	No maintenance required

## Pump Characteristics

Max. Flow Rate.....	500 ml/min (STP)
Max. Pressure.....	50 kPa
Max. Vacuum.....	15 kPa
Life Expectancy.....	1,000 hours (depending on sampling interval)

## Power

Input Voltage.....	6 VDC
Source.....	International wall power supply (included)
Battery Type.....	Four (4) AA Alkaline (not included)
Consumption.....	~0.5 Watt Avg. (pump running)

## Communication

Cable Type.....	USB cable, Type A to Mini-B, 6-foot long
Software <sup>1</sup> .....	Compatible with our complimentary GasLab® software, as well as our legacy DAS software

## Physical

Material.....	Black polycarbonate enclosure with yellow rubber side grips
Display.....	Back-lit liquid crystal display (LCD), dual character row (shows CO2 level, data logging, and % free memory)
Ports.....	Protected Mini-USB connector, inlet/outlet Lure-type fittings, Power & Log Latching switches, Power jack
Operating Environment.....	Non-corrosive. Indoors: laboratory, residential, commercial or industrial. Outdoors optional.
Dimensions (WxHxD).....	4.82 x 7.10 x 2.05 inches (122 x 181 x 52 mm)

## Models Available

- **CM-0001:** 1% CO2 Data Logger
- **CM-0056:** 5% CO2 Data Logger
- **CM-0010:** 10% CO2 Data Logger
- **CM-0002:** 30% CO2 Data Logger
- **CM-0050:** 60% CO2 Data Logger
- **CM-0003:** 100% CO2 Data Logger

<sup>1</sup> For minimum system requirements, please visit our website at <http://www.co2meter.com/pages/downloads>.