

CARBON DIOXIDE MONITORING SOLUTIONS

Aretas Sensor Networks

HOW IT WORKS



MONITOR

Our monitors gather and transmit data to the communication bridge



GATHER DATA

Data from the communication bridge is sent securely to your private online data center account



ANALYZE & REPORT

Your data is archived, analyzed and reported in many useful ways



24/7 ACCESS

Decision-making is easy from any computer or smart device

SENSOR OPTIONS

CO	Carbon Monoxide
O3	Ozone
dB	Noise
DP	Differential Pressure
NO2	Nitrogen Dioxide
PM	Particulate Matter
TRH-F	Freezer / Fridge
VOC	Volatile Organic Compounds

More options available

Overview

The Aretas Carbon Dioxide (CO₂) Monitoring System is an easy to install, wireless system that displays data online and sends customizable alerts via text message or email. Secure cloud based data allows decision-makers and maintenance staff to monitor CO₂ levels from anywhere at anytime.

The CO₂ Monitoring System can detect CO₂ levels between at 0 - 10,000 ppm. Its functionality can be expanded to include sensors that monitor other gasses, such as CO, NO₂, O₃, and VOC. The CO₂ detector comes standard with Temperature and Relative Humidity sensors offering more in depth data as well potential energy-saving and money-saving opportunities.

Why is carbon dioxide dangerous?

Danger arises when CO₂ levels get too high, which can happen during industrial processes (from furnaces, manufacturing activities, wine making, etc.). Because CO₂ is colorless, odorless, and already present in the atmosphere, early detection of rising levels is crucial for workplace safety.

- Real-time remote wireless carbon dioxide monitoring, 24/7, worldwide.
- Customizable alerts via text message and/or email.
- Access to live and historical data to track trends and make comparisons (CO₂ data logger).
- Ability to add other monitoring systems and/or additional sensors, as needed.
- Simple, sturdy case designed to last.

Product Specifications



Wireless CO₂ Monitor Specifications

- Range: 0 - 10,000 ppm
- Resolution: 1 ppm
- Response time: 20s diffusion time
- Operating temperature: 0 to +50 °C
- Operating humidity: 15 to 90% RH
- Accuracy: ± 30 ppm ± 3 % of measured value

Electrical Characteristics

Voltage input:

- 6xAA or 5V USB Mini-B

Connectivity:

- Digimesh + P2P 900MHz/868MHz long range
- Zigbee

Sensor polling rate: 2 min

Features

- Battery-powered option with customizable reporting intervals and low power modes that enable long-term battery-powered operation.
- Wireless communication between one or more monitors and the communication bridge or PC-based data collection.
- 24/7 remote monitoring and threshold-based alerting.
- With the optional Internet-based communication bridge, you can access data online from anywhere in the world.
- Data can be exported to geographic information systems or other custom mapping systems.
- Data can also be exported from our large scale data warehouse, via API, to be analyzed by other programs.
- High resistance to radio frequency and electrostatic field noise.