

VOLATILE ORGANIC COMPOUND 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
CO2	Carbon Dioxide
O3	Ozone
dB	Noise
DP	Differential Pressure
NO2	Nitrogen Dioxide
PM	Particulate Matter
TRH-F	Freezer / Fridge

More options available

Overview

The wireless volatile organic compound monitoring system uses a photoionization sensor which has a measurement range of up to 10,000 ppm and a minimum of 1 ppb. This easy to install, wireless system displays data online and sends customizable alerts via text message or email. The VOC monitoring equipment can include other sensors such as CO, CO2, NO2, O3, PM or O3 to provide you with accurate information about your indoor environments. Secure cloud based data allows decision-makers and maintenance staff to monitor VOC levels from anywhere at anytime.

The VOC detector comes standard with Temperature and Relative Humidity sensors offering more in depth data as well potential energy-saving and money-saving opportunities.

What is volatile organic compound air pollution?

Environment Canada reports that "VOCs include a variety of chemicals that can cause eye, nose and throat irritation, headaches, nausea, dizziness, and skin problems. Higher concentrations may cause irritation of the lungs, as well as damage to the liver, kidney, or central nervous system. Some VOCs are suspected to cause cancer in humans and have been shown to cause cancer in animals." <http://www.healthlinkbc.ca/healthfiles/pdf/hfile65d.pdf>

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

Product Specifications



Wireless VOC Monitor Specifications

- Range: 2 - 10,000 ppm
- Resolution: 1 ppm
- Operating temperature: -20 to +60 °C
- Operating humidity: 0 to 90% RH

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.