

FORMALDEHYDE 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
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 IoT Wireless Formaldehyde monitor 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 those entrusted with employee health and safety to monitor Formaldehyde levels from anywhere at any time.

Why is Formaldehyde a Concern?

Formaldehyde is classified as a human carcinogen by the International Association of Research on Cancer (IARC). It can be inhaled or absorbed by the skin upon contact. Long term and short term exposure have been known to cause nausea, burning eyes, headaches, respiratory irritation and aggravation of conditions such as asthma and other chronic respiratory disorders.

Formaldehyde is widely used in the production of textiles and building materials and is a common ingredient in resins. It's use as a preservative makes it prevalent in medical and laboratory settings. OSHA regulations require the short term exposure level of formaldehyde (STEL) to be less than 2 ppm and permissible exposure levels (PEL) over 8 hours to be less than 0.75ppm. Continuous monitoring is a protective and proactive safety measure that will allow you to locate causes of excessive emissions and take action to limit airborne exposure. With continuous monitoring and easy to customize data management you can be assured that emissions are being kept within OSHA or your region's equivalent recommended and required limits for short and long term exposure.

Product Specifications



Wireless CH₂O Monitor Specifications

- Resolution: 0.01 ppm
- Response time (T90): <30s
- Temperature range: -10°C to 40°C
- Humidity range: 15 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.