

Industrial Grade Single Parameter Air Quality Monitor



AQBot™ is an industrial air quality monitor with automation capabilities. AQBot™ Series offers a wide range of air quality parameters to choose from. The range of available parameters consists of all the important Gases, Particulates, and Noise related monitoring for Industrial scenarios. AQBot™ product range consists of critical ambient parameters and toxic gases like Total Volatile Organic Compounds (TVOC), Ammonia (NH₃), Hydrogen sulfide (H₂S), Methane (CH₄), Carbon Monoxide (CO), Formaldehyde (CH₂O), Particulate Matter (PM₁, PM_{2.5}, PM₁₀, PM₁₀₀), Ambient Noise, etc. The AQBot series is designed for easy and inexpensive maintenance.

Product Features



On Device Display



Ultimate Durability



Weatherproof Enclosure



Compact and Lightweight



Internal Data Storage



SMS and Email Alerts



Real-Time Data



Built-in Relay



Wired Communications



Wireless Communications



Over-The-Air Updates



Data Analytics Software

Why Monitor Formaldehyde?

Formaldehyde (CH₂O) is a clear, colourless gas with a pungent and irritating smell and is mainly used in the canning industry, leather tanning, embalming, fabric manufacturing, and as a biocide in the food industry. Formaldehyde is normally present at low levels (less than 0.03 parts per million) in both indoor and outdoor air. Materials containing formaldehyde can release it as a gas or vapor into the air. Automobile exhaust is a major source of formaldehyde in outdoor air. Exposure to exogenous Formaldehyde sources, poses a significant threat to human health. High levels of Formaldehyde (5-30 ppm) can severely irritate the lungs, causing chest pain and breathing problems. Thus, monitoring environmental Formaldehyde levels is of crucial importance to prevent multi-organ damage.

Product Applications



Textile Industry

High temperature ovens-drying and coating

The best in class Formaldehyde Monitor

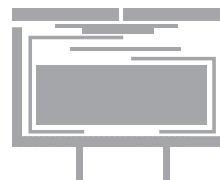
AQBot™ consists of the NEMA 4X approved enclosure to last long in a harsh industrial environment. It offers all industry-standard output signals like MODBUS, CANbus, RS-485, RS-232, etc. In addition, the fixed air quality monitor can also offer other communication modes like GSM (2G / 3G/ 4G), GPRS, WiFi, LoRa, Ethernet, Satellite etc. The monitor can easily integrate with existing building monitoring or plant control systems infrastructure. Using such a wide range of communication capabilities, AQBot™ enables the Industrial Internet Of Things (IIoT) which is the backbone of Industrial Revolution 4.0.

Key Benefits

- Quick sensing for threshold based alerts
- Highly accurate data to detect low ppb concentrations
- Robust built to sustain harsh industrial conditions
- Easy data integrations to match industry standards
- In built relay operation for automation
- Data transmissions through multiple channels
- Real time data display for keeping a check
- Siren and strobe for audio and visual alerts
- Effortless installations with versatile mounting arrangement

AQBot Specifications

ID	PARAMETER	RANGE	RESOLUTION
OZCH2O_1	Formaldehyde	0-10 ppm	0.05 ppm
OZCH2O_2	(CH ₂ O)	0-50 ppm	0.1 ppm



Electrochemical Sensing



Mechanical

Size	210MM(W) x 258mm(H) X 105mm(D)
Weight	2.8 Kg (instrument weight)
Material	NEMA 4X Fire Retardant FRP Enclosure
Certifications	CE, IP66, RoHS
Installation Method	Pole Mount / Wall Mount



Technical

Processor	Quad Core ARM Cortex
Memory	2GB RAM 8GB eMMC ROM
Device Interface	Display / On-device Software / API / Cloud Platform
Internal Data Storage	Upto 8 GB or 90 days



Environmental

Operating Temperature	-20 °C to 60 °C
Operating Humidity	0-93% RH
Recommended Humidity	15-90% RH
Storage Conditions	10 - 40°C

Changing the way Industries monitor air quality



Get in touch



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