

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 Hydrogen Sulphide?

H₂S is colorless, flammable, poisonous, and corrosive gas with one sulfur atom bonded to two hydrogen atoms. It is also known as sewer gas, swamp gas, or manure gas. H₂S has a noticeable rotten-egg odour detectable at concentrations as low as 0.5 ppb. Prolonged exposure to H₂S can have several hazardous effects, like low blood pressure, headache, dizziness, nausea, and vomiting, as well as coughing and difficulty in breathing. While higher levels can cause shock, convulsions, coma, and death. Industrial processes such as production of coke, viscose rayon production, wood pulp, etc. emit H₂S in the air. Other sources include sulfur extraction processes, tanning, mining, sugar-beet processing, and hot-asphalt paving. Real-time monitoring of H₂S levels helps in determining the source of the odour as well as formulating an action plan to control odour for workplace safety.

Product Applications



Wastewater Treatment Plants
Sludge storage and anaerobic digestion



Leather Industry
Beamhouse, unhairing and liming process



Fisheries
From rotting of fish in storage and processing

AQBot™ H₂S

The best in class Hydrogen Sulphide 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 |
|---------|--------------------|------------|------------|
| OZH2S_1 | Hydrogen Sulfide | 0-1.5 ppm | 0.001 ppm |
| OZH2S_2 | (H ₂ S) | 0-50 ppm | 0.05 ppm |
| OZH2S_3 | | 0-200 ppm | 0.2 ppm |
| OZH2S_4 | | 0-2000 ppm | 2 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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