

## 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 (NH<sub>3</sub>), Hydrogen sulfide (H<sub>2</sub>S), Methane (CH<sub>4</sub>), Carbon Monoxide (CO), Formaldehyde (CH<sub>2</sub>O), Particulate Matter (PM<sub>1</sub>, PM<sub>2.5</sub>, PM<sub>10</sub>, PM<sub>100</sub>), 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 Methyl Mercaptan?

CH<sub>3</sub>SH is a colourless, highly flammable, toxic gas with a distinct, strong unpleasant odour released as a result of microbial degradation of organic matter. It is an organosulfur volatile organic compound (VOC) hence, easily ignitable and decomposable, emitting highly toxic fumes and flammable vapors. Exposure to CH<sub>3</sub>SH causes irritation to eyes and skin, as well as respiratory tract, damages liver and kidneys, leading to coma and death. Industrial sources of CH<sub>3</sub>SH include manufacturing and use of methionine, pesticides, jet fuels, oil shale, plastics, etc. Subsequently, other sources include sewage treatment plants, petroleum refining, starch manufacturing, wood-pulp mill, rendering plants, pharmaceutical industry, etc. Real-time monitoring of CH<sub>3</sub>SH levels helps in determining their source as well as formulating an action plan to control methyl mercaptan emissions.

### Product Applications



**Paper And Pulp Industry**  
Digester, black liquor storage, recovery boiler.



**Wastewater Treatment Plants**  
Sludge storage and anaerobic digestion



**Meat Processing Plants**  
By product, storage and ETP

# AQBot™ CH<sub>3</sub>SH

## The best in class Methyl Mercaptan Monitor

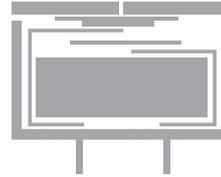
AQBot™ consists of the NEMA 4X approved enclosure to last long in a harsh industrial environment. It offers all industry-standard output signals like MODBUS, CANbus, RS-485, RS-232, etc. In addition, the fixed air quality monitor can also offer other communication modes like GSM (2G / 3G/ 4G), GPRS, 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
- Optional siren & strobe for audio & visual alerts"
- Effortless installations with versatile mounting arrangement

### AQBot Specifications

ID	PARAMETER	RANGE	RESOLUTION
OZCH3SH_1	Methyl Mercaptan (CH <sub>3</sub> SH)	0-10 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



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