

## 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 Ammonia?

NH<sub>3</sub> is a very soluble, colorless gas with a strong pungent smell. Primarily, it is released from decaying organic matter, including animal waste and fertilizer use. NH<sub>3</sub>, on contact or when inhaled, rapidly reacts with the moisture containing body parts. It causes irritation and may damage the eyes, nose, throat, and the respiratory tract. Many industrial processes often lead to ammonia emission through process stacks or unidentified leakages. Continuous monitoring of ammonia in such confined spaces, leakage prone zones and industrial sheds provides adequate warning of hazardous exposure. Stakeholders like safety managers or workshop supervisors can further take necessary precautions with such actionable information.

### Product Applications



#### Cold Storage and Refrigeration

As a coolant for most of the refrigeration units



#### Livestock Monitoring

Generated from animal waste



#### Fisheries

From rotting of fish in storage and processing

# AQBot™ NH<sub>3</sub>

## The best in class Ammonia 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
OZNH3_1	Ammonia (NH <sub>3</sub> )	0-20 ppm	0.3 ppm
OZNH3_2		0-100 ppm	0.3 ppm
OZNH3_3		0-1000 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



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