

## 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 Carbon Dioxide?

Carbon dioxide is a colorless and non-flammable gas at normal temperature and pressure. A molecule of carbon dioxide (CO<sub>2</sub>) is made up of one carbon atom and two oxygen atoms. Carbon Dioxide can be produced by various processes in the industries. Exposure to CO<sub>2</sub> can produce a variety of health effects. These may include headaches, dizziness, restlessness, difficulty breathing, sweating, tiredness, increased heart rate, elevated blood pressure and more. Monitoring Carbon Dioxide with AQBot ensures warnings of hazardous exposures. The data generated, aids the safety officials to take appropriate mitigative measures and prevent Carbon Dioxide from reaching dangerous toxic levels.

### Product Applications



#### Cement Industry

Rotary Kiln & Vertical Shaft Kiln,  
Clinker



#### Cold Storage and Refrigeration

As a coolant for most of the  
refrigeration units.



#### Thermal Power Plants

Boiler Fuel Combustion

## The best in class Carbon Dioxide Monitor

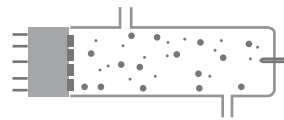
AQBot™ consists of the NEMA 4X approved enclosure to last long in a harsh industrial environment. It offers all industry-standard output signals like MODBUS, CANbus, RS-485, RS-232, etc. In addition, the fixed air quality monitor can also offer other communication modes like GSM (2G / 3G/ 4G), GPRS, 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 |
|---------|-----------------------------------|------------|------------|
| OZCO2_1 | Carbon Dioxide (CO <sub>2</sub> ) | 0-5000 ppm | 1 ppm      |



Non Dispersive Infrared (NDIR)

### 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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