

# **Polludrone**<sup>®</sup> Ambient Air Quality Monitoring System



# About Polludrone®



Polludrone<sup>®</sup> is a Continuous Ambient Air Quality Monitoring System (CAAQMS). It is capable of monitoring various environmental parameters related to Air Quality, Noise, Odour, Meteorology, and Radiation. Polludrone<sup>®</sup> measures the particulate matter and gaseous concentrations in the ambient air in real-time. Using external probes, it can also monitor other auxiliary parameters like traffic, disaster, and weather.

Polludrone<sup>®</sup> is an ideal choice for real-time monitoring applications such as Industries, Smart Cities, Airports, Construction, Seaports, Campuses, Schools, Highways, Tunnels, and Roadside monitoring. It is the perfect ambient air quality monitoring system to understand a premise's environmental health.



## **Product Features**



### Patented Technology

Works on innovative e-breathing technology for higher data accuracy.



**Retrofit Design** 

Plug and play design for ease of implementation.



Compact

Lightweight and compact system that can be easily installed on a pole or wall.



Internal Storage

Internal data storage capacity of upto 8 GB or 90 days.



**On-device Calibration** On-site device calibration capability using built-in calibration software.



**Identity And Configuration** Geo-tagging allows you to get the exact location of the device, consisting of latitude and longitude coordinates.



#### Tamper Proof IP 66 Grade certified secure system to

avoid tampering / malfunction / sabotage.



**Over-The-Air Update** Automatically upgradeable from a central server without any onsite visit.



**Network Agnostic** Supports a wide range of connectivity options like GSM / GPRS / WiFi / LoRa / NBIoT / Ethernet / Modbus / Relay / Satellite.



**Real-Time Data** Continuous monitoring and real-time data transfer at configurable intervals.



Weather Resistant (IP 66) Durable enclosure designed to withstand extreme weather conditions.



#### **Fully Solar Powered** The system works 100% on solar power, making it ideal for off-grid locations.

# **Key Benefits**



**Robust And Rugged** Durable enclosure to sustain extreme climatic conditions.



**Monitor Multi-parameter** Compatible with a wide range of parameters including PM, Gases and Meteorological parameters



Seamless Connectivity A wide range of options for wired and wireless connectivity.



#### Secure Cloud Platform

Secure platform for visualising and analysing data, with easy API integration for immediate action.



#### Accurate Data

Gives accurate readings in real-time to detect concentrations in ambient air.



#### Easy to install

Effortless installation with versatile mounting arrangements.

## Polludrone<sup>®</sup> Usecases



### **Industrial Fenceline**

Pollution monitoring at the industry fenceline helps to monitor air pollution levels and ensures that industries comply with policies and safety regulations.



### Roads, Highways and Tunnels

Pollution monitoring at roads and tunnels can help create pollution mitigation action plans to control vehicular emissions.



#### **Smart City and Campuses**

Pollution monitoring at strategic locations in smart cities and campuses empowers authorities to obtain actionable insights for pollution control and citizen welfare.



### Airports

Pollution and noise monitoring at taxiways and hangars facilitate analysing the impacts on travellers and surrounding neighbourhoods.

# Polludrone<sup>®</sup> Variants

Variants	Applications	Parameters
Polludrone <sup>®</sup> Lite	General Purpose, Smart campus	PM <sub>2.5</sub> , PM <sub>10</sub> , CO2, CO, Noise, Light, UV-Radiation, Temperature, Humidity, Pressure
Polludrone <sup>®</sup> Smart	Extensive, Smart cities	PM <sub>2.5</sub> , PM <sub>10</sub> , CO2, CO, SO2, NO, NO2, O3, Noise, Light, UV - Radiation, Temperature, Humidity, Pressure
Polludrone <sup>®</sup> Pro	Critical, Industrial fenceline	PM <sub>1</sub> , PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>100</sub> (TSP), CO2, CO, SO2, NO, NO2, O3, H2S, Noise, Light, UV-Radiation, Temperature, Humidity, Pressure
Polludrone Custom	As per request	Choose up to 9 Gases, Particulate Matter, and Noise with Optional External Modules

## Parameters

	Sensor		ID	Range	Resolution	Min. Detection	Drift	Working Principle	Expected Sensor Life
with size less than 10 µ (PM, u) Uitra Fine Particulate Matters with size less than 10 µ (PM, u)opp_n/1 size less than 10 µ (PM, u)opp_n/2 Loptical Particulate Counterpercent No Loptical Particulate Countername Loptical Particulate Countername 									
Ultra Fine Particulate Matters with izze less shan lu (PM,)Vero 30 mg/m3Upto 30 mg/m3Iug/m9Iug/m9RA.CounterIn Particulate CounterTotal Suspended Particulates (TSP) (PM,m3)0.5 ppm0.01 ppm0.01 ppm0.10 ppm2% / MonthCarbon Monoxide (CO)0.2000 ppm0.10 ppm0.01 ppm0.10 ppm2% / MonthCarbon Dioxide (CO)0.2000 ppm0.75 ppm0.75 ppm0.75 ppm2% / MonthCarbon Dioxide (CO)0.2000 ppm0.001 ppm0.01 ppm2% / MonthCarbon Dioxide (CO)0.2000 ppm0.001 ppm0.01 ppm2% / MonthNitric Oxide (NO)0.2000 ppm0.001 ppm0.01 ppm2.20 pb / YearNitric Oxide (NO)0.200 ppm0.50 ppm0.50 ppm2.20 pb / YearNitric Oxide (NO)0.200 ppm0.20 ppm0.20 ppm2.20 pb / YearOxing (O)0.200 ppm0.20 ppm0.01 ppm2.20 pb / YearOxing (O)0.200 ppm0.001 ppm0.01 ppm2.20 pb / YearOxing (O)0.200 ppm0.001 ppm0.01 ppm2.20 pb / YearOxing (O)0.200 ppm0.001 ppm0.01 ppm2.20 pb / YearOxing (O)0.200 ppm0.20 ppm0.20 ppm2.2% / MonthOxing (O)0.200 ppm0.20 ppm </td <td></td> <td></td> <td>07PM 1*</td> <td rowspan="2">Upto 5000 µg/m<sup>3</sup></td> <td rowspan="3">0.1 µg/m<sup>3</sup> 1 µg/m<sup>3</sup></td> <td rowspan="2">1 µg/m<sup>3</sup></td> <td rowspan="2">N.A.</td> <td rowspan="2"></td> <td rowspan="2">18 Months</td>			07PM 1*	Upto 5000 µg/m <sup>3</sup>	0.1 µg/m <sup>3</sup> 1 µg/m <sup>3</sup>	1 µg/m <sup>3</sup>	N.A.		18 Months
(TSP) (PM, or all of the solution of the solutis and the solutis of the solutis of the solution of the									
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Particulates		Upto 30 mg/m <sup>3</sup>				l	
			OZCO_1*	0-5 ppm	0.01 ppm	0.01 ppm	< 1ppm / year		
Outcome     OZCO_2     0-100 ppm     0.1 ppm     0.1 ppm     < 2% / Month       Carbon Dioxide (CO_3)     02CO_2,1     0.000 ppm     0.75 ppm     0.75 ppm     < 2% / Month	Carbon Monovide		OZCO_4	0-50 ppm	0.05 ppm	0.05 ppm	< 2% / Month	Electrochemical	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		e (CO)	OZCO_2	0-100 ppm	0.1 ppm	0.1 ppm	< 2% / Month		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			OZCO_3	0-1000 ppm	0.75 ppm	0.75 ppm	< 2% / Month		
Nitric Oxide (NO)     OZNO_2     0-10 ppm     0.5 ppm     0.5 ppm     ±50 pp/ Year       Nitrogen Dioxide (NO_2)     OZNO_2     0-100 ppm     0.00 ppm     0.01 ppm $\pm 20$ pp/ Year       OZNO_2     0-100 ppm     0.2 ppm     0.20 ppm $\pm 20$ pb/ Year       OZNO_2     0-100 ppm     0.2 ppm $\pm 20$ pb/ Year       OZNO_2     0-100 ppm     0.5 ppm $\pm 20$ pb/ Year       OZNO_2     0-100 ppm     0.5 ppm $\pm 20$ pb/ Year       OZNO_2     0-100 ppm     0.01 ppm $\pm 20$ pb/ Year       Oxygen (O_2)     OZO_2.1     (-10 ppm     0.01 ppm $\pm 20$ pb/ Year       Oxygen (O_2)     OZO_2.1     (-15 ppm     0.01 ppm $\pm 20$ pb/ Year       OXH25_2     0-50 ppm     0.05 ppm $\pm 20$ pb/ Year       OZH25_2     0-50 ppm     0.02 ppm $\pm 20$ pb/ Year       Sulfur Dioxide (H_2S)     OZO_2.1     0-10 ppm $\pm 20$ pb/ Year       OZSO_2.1     0-10 ppm     0.02 ppm $\pm 20$ pb/ Year       Sulfur Dioxide (H_2S)     OZN_1*     Upto 140 dB     1dB $55$ ppm	Carbon Dioxide (	CO <sub>2</sub> )	OZCO2_1*	0-5000 ppm	1 ppm	400 ppm	±5 ppm / Year	Non Despersive Infrared	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Nitzia Ovida (NO)		OZNO_1*	0-5 ppm	0.001 ppm	0.01 ppm	< 2% / Month		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	NILLIC OXIGE (NO)		OZNO_2	0-100 ppm	0.5 ppm	0.5 ppm	±50 ppb / Year		2 years
			OZNO2_1*	0-10 ppm	0.001 ppm	0.01 ppm	±20 ppb / Year		
Ozone (O <sub>3</sub> )     OZO3_1*     O-10 ppm     O.00 ppm     O.01 ppm     ±20 ppb / Year       Oxygen (O <sub>2</sub> )     OZO2_1     (0-25) %VOL     0.11 %VOL     0.11 %VOL     <2% / Month	Nitrogen Dioxide	(NO <sub>2</sub> )	OZNO2_2	0-100 ppm	0.2 ppm	0.2 ppm	< 2% / Month		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			OZNO2_3	0-500 ppm	0.5 ppm	0.5 ppm	< 2% / Month		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Ozone (O <sub>3</sub> )		OZO3_1*	0-10 ppm	0.001 ppm	0.01 ppm	±20 ppb / Year		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Oxygen (O <sub>2</sub> )		OZO2_1	(0-25) %VOL	0.1 %VOL	0.1 %VOL	< 2% / Month		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			OZH2S_1*	0-1.5 ppm	0.001 ppm	0.01 ppm	±100 ppb / Year	Electrochemical	
$\frac{1}{2} \frac{1}{2} \frac{1}$			OZH2S_2	0-50 ppm	0.05 ppm	0.05 ppm	< 2% / Month		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Hydrogen Sulfide	e (H <sub>2</sub> S)	OZH2S_3	0-200 ppm	0.2 ppm	0.2 ppm	< 2% / Month		
			OZH2S_4	0-2000 ppm	2 ppm	2 ppm	< 2% / Month		
$\frac{1}{1} \frac{1}{1} \frac{1}$			OZSO2_1*	0-10 ppm	0.001 ppm	0.01 ppm	±20 ppb / Year		
Ambient Noise OZN_1* Upto 140 dB 1 dB 0.5 dB N.A. Capacitive   Temperature OZTEMP_1* -40 to 125°C 0.01°C ppm -40 °C N.A. Solid State   Humidity OZHUM_1* 100% Rh 0.10% ppm 0.10% N.A. Solid State   Barometric Pressure OZPRES_1* 300-1100 hPa 0.18 Pa 300 hPa N.A. Semiconductor   Pyranometer Visible Light Upto 1,00,000 1 Lux 1 Lux N.A. Photoconductivity	Sulfur Dioxide (SC	O <sub>2</sub> )	OZSO2_2	0-100 ppm	0.2 ppm	0.2 ppm	< 2% / Month		
Temperature     OZTEMP_1*     -40 to 125°C     0.01°C ppm     -40 °C     N.A.     Solid State Semiconductor Sensing       Humidity     OZHUM_1*     100% Rh     0.10% ppm     0.10%     N.A.     Solid State Semiconductor Sensing       Barometric Pressure     OZPRES_1*     300-1100 hPa     0.18 Pa     300 hPa     N.A.       Light Intensity     Up to 1,00,000 Lux     1 Lux     1 Lux     N.A.     Performation       OZUV_1     OZUV_1     OZUV_1     0.1 Lux     0.1 Lux     N.A.     Performation     Performation     Performation     Ave: 100 Ppm     100 Ppm     100 Ppm     N.A.     Performation     Semiconductor			OZSO2_3	0-2000 ppm	5 ppm	5 ppm	< 2% / Month		
Humidity OZHUM_1* 100% Rh 0.10% ppm 0.10% N.A. Solid state   Barometric Pressure OZPRES_1* 300-1100 hPa 0.18 Pa 300 hPa N.A. Semiconductor   Light Intensity Up to 1,00,000 1 Lux 1 Lux N.A. Put of the	Ambient Noise		OZN_1*	Upto 140 dB	1dB	0.5 dB	N.A.	Capacitive	-
Barometric Pressure OZPRES_1* 300-1100 hPa 0.18 Pa 300 hPa N.A.   Light Intensity Light Intensity Up to 1,00,000 Lux 1 Lux 1 Lux N.A.   Pyranometer Solar Radiation Visible Light OZUV_1 Upto 5000 Lux 0.1 Lux 0.1 Lux N.A.	Temperature		OZTEMP_1*	-40 to 125°C	0.01°C ppm	-40 °C	N.A.	Semiconductor	
Barometric Pressure OZPRES_1* 300-1100 hPa 0.18 Pa 300 hPa N.A.   Light Intensity Light Intensity Up to 1,00,000 Lux 1 Lux 1 Lux N.A.   Pyranometer Solar Radiation Visible Light OZUV_1 Upto 5000 Lux 0.1 Lux 0.1 Lux N.A.	Humidity		OZHUM_1*	100% Rh	0.10% ppm	0.10%	N.A.		
Pyranometer Solar Radiation Visible Light OZUV_1 Lux 1 Lux 1 Lux N.A.	Barometric Pressure		OZPRES_1*	300-1100 hPa	0.18 Pa	300 hPa	N.A.		
Solar Radiation OZUV_1 OZUV_1 AV	Pyranometer Solar Radiation 300 - 1100 nm	Light Intensity	_ ozuv_1		1 Lux	1 Lux	N.A.	Photoconductivity	3 Years
		Visible Light		-	0.1 Lux	0.1 Lux	N.A.		
300 - 1100 nm     UV Radiation     0.1-100,000 uW/cm <sup>2</sup> 0.1 uW/cm <sup>2</sup> 0.1 uW/cm <sup>2</sup> N.A.		UV Radiation		0.1-100,000 uW/cm <sup>2</sup>	0.1 uW/cm <sup>2</sup>	0.1 uW/cm <sup>2</sup>	N.A.		
UV Index 0-12 N.A.		UV Index		0-12	-	-	N.A.		

Note: Expected Sensor Life can vary, subject to actual concentration on-site. In the interest of continued product improvement, we reserve the right to change design features and specifications without prior notification. The data contained in this document is for guidance only, Oizom<sup>®</sup> accepts no liability for any consequential losses, injury or damage resulting from the use of this document or the information contained within.

External Modules

Anemometer OZWSD\_1\* Wind Speed: 0-40 m/s Wind Direction: 0-359° Working Principle: Ultrasonic



Rain Gauge OZRAIN\_1\* Resolution: 0.25 mm Working Principle: Tipping Bucket



Vibration Sensors

PPV: +/- 2G Range frequency: 0.5 - 250 Hz Range velocity: ±50 mm/s (±2 in/s) Working Principle: MEMS

\* Indicates standard delivery timeline

# Specifications

### 🔀 Mechanical

Size	360mm (H) x 328mm (W) x 200mm (D)
Weight	7.2 Kg (instrument weight)
Material	Aluminum Magnesium Alloy, Mild-steel (With Powder Coating), FRP
Certifications	CE, FCC, NEMA 4X, IP66, RoHS

### 🕖 Electrical

Avg. Power Consumption	Up to 7 Watt (Actual consumption will vary upon the number of parameters)
Power Input Options	AC : External 110-240V AC, 50-60Hz DC : Uninterrupted 24V DC, 2 Ampere 60 Watt 24V Solar Panel
SMPS Specs	24V, 2Amps output UL-62368 & CAN/CSA C22.2 Certified
Battery Backup Time	Up to 12 Hours
Battery Specs	Lithium iron phosphate (LiFePO4) battery cell with rated voltage 12.8V Capacity 6Ah

### Technical

Processor	Quad Core ARM Cortex	Operating Temperature	-20 °C to 60 °C	
Memory	2GB RAM / 8GB eMMC ROM	Operating Humidity	0-93% RH	
Device Interface	On-device Software / API / Cloud Platform	Recommended Humidity	15-90% RH	
Internal Data Storage	Upto 8 GB or 90 days	Storage Conditions	10 - 40°C	

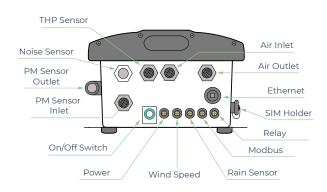
Environmental

### (((•))) Sensing

Gas Measurement Principle	Active Sampling with Sampling rate of 325 mL/Sample
Dust Measurement Principle	Active Sampling with Sampling rate of 1 L / min
Warm up time	< 48 hours for data stabilisation

## Communication

Data Interval	5-30 minutes (configurable)		
Data-push Protocol	HTTP post request to host server		
Data-pull	HTTP request on device IP		
Firmware Updates	Over-The-Air Firmware Update		
Standby Connectivity	GSM (2G/3G/4G) for remote diagnosis, FOTA updates, and cloud calibration		
Certification	PTCRB, CE, FCC, RoHS, ICASA		

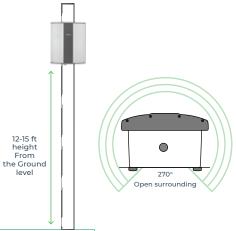


	Connectivity Options	Specification
	👰 сѕм	Global 2G / 3G / 4G
	LoRa	868 MHz / 915 MHz
	LTE	CAT-M1
Wireless	NB-IoT	CAT-NBI
	sigfox	868 to 869 MHz, 902 to 928 MHz
	WIE	AP Mode and Station Mode
	×,	Satellite
	ETHERNET	Static / DHCP Configuration
Wired	Modbus	RS485 RTU / TCP
	3 \$ RELAY	2 Channel Relay

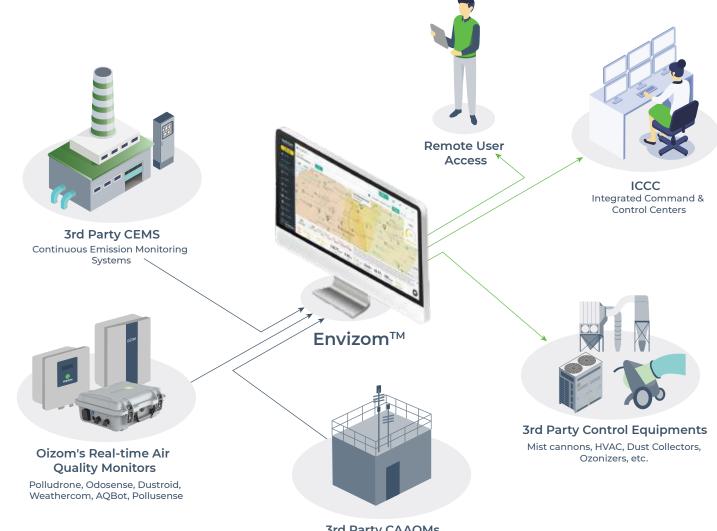
# **Functional Specifications**

Proper location selection is critical for optimised data collection. It varies as per the purpose of the project. According to U.S. EPA QA handbook (Vol II, Section 6.0 Rev.1), the selection of locations should be based on monitoring purposes.

Preferred Mounting	Pole / Wall (preferably 270° open surrounding)	
Installation Height	12-15 feet (4-5 meters)	
Direction	As per maximum direct sunlight exposure	
Power Availability	Constant AC / DC supply within a 2-meter range from the unit or solar panel	
Network Availability	Uninterrupted network connection	



# **Solution Architecture**



3rd Party CAAQMs Continuous Ambient Air Quality Monitoring Systems

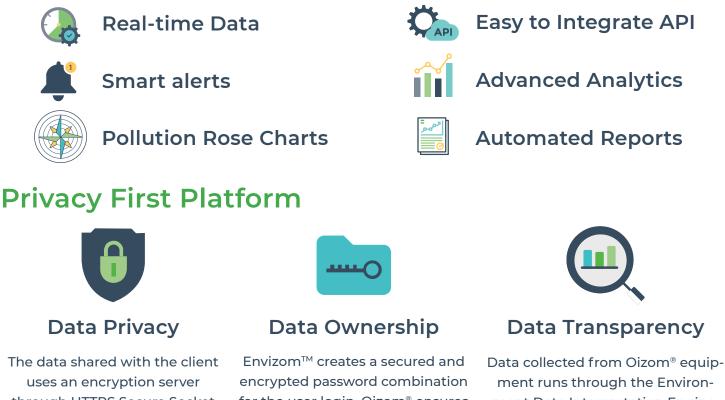
## Envizom<sup>™</sup> **Data Visualisation and Analytics Platform**



Envizom<sup>™</sup> is an Environmental visualisation and analytics platform for real-time air quality data acquisition. Our Environmental Data Interpretation Engine, powered by Artificial Intelligence & Machine Learning algorithms, provides highly accurate data and actionable insights, empowering users to make well-informed decisions. Envizom<sup>™</sup> uses secured HTTPS servers for data storage. Alternatively, this data can also be stored on-premise local servers.

With the Report module, users can get immediate and automated daily / weekly / monthly reports through SMS and Email to gain comprehensive insights into the air quality of their areas or industrial zones. The Analytics module provides comparative detailed data on changes in air quality data over time, enabling a clear understanding of the factors contributing to pollution.

## **Envizom<sup>™</sup> Capabilities**



The data shared with the client through HTTPS Secure Socket layers. Envizom<sup>™</sup> also uses AES encryption for connection that adds to data safety.

for the user login. Oizom® ensures 100% privacy of the data and doesn't share without relevant permissions.

ment runs through the Environment Data Interpretation Engine. It processes various algorithms and eliminates environmental impact interferences on the sensors.













# **Case Studies**



### Smart city air quality monitoring in Agra, India

The pollution in Agra is affecting historic sites, including the Taj Mahal. To assist authorities in gaining insights into the city's atmosphere with air quality, Oizom deployed Polludrone<sup>®</sup> systems throughout the city.







India

Polludrone Custom

Smart City

### Ensuring environmental safety and reassuring communities at Dangote **Cement Plant**

Oizom's Polludrone<sup>®</sup> systems are monitoring pollution and dust levels at the Dangote Cement Plant, addressing the environmental safety and air quality concerns raised by neighboring communities that confirm the air quality at sites is safe for all.



Ethiopia



Polludrone Smart



Fenceline Monitoring





### **Ensuring safety during Skanska's Tunnel Construction in Norway**

Skanska improved safety and efficiency using the Oizom<sup>®</sup> instrument to monitor the air quality minutely, enabling better explosive use decisions and new industry standards.







Norway

Construction

Polludrone Pro

# **Case Studies**



### **Riyadh Airport authorities analyse** the pollution trend in the airport region with Polludrone®

At Riyadh Airport, Oizom's Polludrone® is monitoring the pollution due to frequent dust storms to ensure the safety of flights while taking off and landing.







Saudi Arabia

Polludrone Custom

## Airport

## Air Quality monitoring in smart cities for Arunachal Pradesh **Pollution Control Board**

APSPCB monitors the various parameter levels of air pollution in Namsai and Kharsang of Arunachal Pradesh in real-time with Polludrone®. Air quality data is displayed on an LED screen to assure citizens' safety.



India







Smart Citv





### A City in Texas monitoring the air quality with Oizom to ensure citizens' safety

Galena Park deployed Oizom's Polludrone® to improve its city's air quality management methods by monitoring the impact of oil refinery emissions.





Pro



Texas

Polludrone

Smart city



gases at ppb, and ppm levels in the ambient air. The sensor is capable to monitor the point source gases on real-time basis. Each sensor is integrated into a metal casing along with the ultra-low-noise support electronics, which makes it compact and reliable. This allows accurate gas detection even at very low concentrations in the atmosphere.

- 1. Proprietary gas sensing technology
- 2. Independent calibration of each sensor
- 3. Low-noise electronic design



# **Data and Calibration**

### Laboratory Calibration

All air quality monitoring systems are calibrated at the ISO/IEC 17025:2017 certified calibration laboratory using standard NIST traceable calibration gas standards as per the international guidelines by U.S. EPA.(Vol II, Section 6.0 Rev.1)

### 2 Collocation Calibration

Post lab calibration, the monitors are operated adjacent to a custom-built reference station housing U.S. EPA-designated Federal Equivalent Method (FEM) for collocation calibration to ensure optimum data quality.

### **On-site Calibration**

On-site calibration of Oizom<sup>®</sup> devices can be performed using standard calibration gas cylinders of known concentration or by co-locating with a reference standard.



# out Oizom<sup>®</sup>



Leaders in sensor based air quality monitoring



Plug and play monitors for hassle free setup Low powered solutions for multiple applications

Oizom<sup>®</sup> is an environmental monitoring company that offers accurate air quality monitoring solutions for better decision-making. Using our patented monitoring technology, Oizom's system monitors various environmental parameters related to Air Quality, Noise, Odour, Weather, Radiation, etc. Our data analytics platform derives various actionable insights for authorities, communities, and industries. With smart environmental solutions, Oizom<sup>®</sup> aims to empower future cities with reliable and accurate environmental monitoring.

Over the past decade, Oizom<sup>®</sup> has focused on environmental monitoring technology and solutions, and till now, we've deployed 3000+ devices. We are monitoring the environmental health of more than 200 million people worldwide. The solutions we provide are in 65+ major cities worldwide. With a network of partners, Oizom<sup>®</sup> has expanded its reach and made a strong presence in over 70 countries worldwide.

# **Other Oizom<sup>®</sup> Products**



Dustroid® Real-time Dust Monitor

Dustroid® is an online particulate monitoring system to measure a wide spectrum of particulate matter sizes.



AQBot<sup>™</sup> Single Parameter Air Quality Monitor

AQBot<sup>™</sup> is an industrial grade single parameter air quality monitor with automation capabilities.





Weathercom<sup>®</sup> Automatic Weather Station

Weathercom® is an automatic weather station designed to measure various meteorological parameters.





Odosense<sup>®</sup> Odour Monitoring System

Odosense® monitors various odourful and toxic gases in the environment and provides insight into odour dispersion.





Pollusense<sup>™</sup> Portable Air Quality Monitor

Pollusense™ is a Portable Air Quality Monitoring System that measures multiple toxic gases and particulate matter along with noise.









3000+







#### Changing the way Industries monitor air quality



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