# Polludrone<sup>®</sup> Lite



Low Cost Air Quality Monitor



#### **Our Technology**

The Polludrone Lite air quality monitor works on proven working principles like NDIR, Electrochemical Analysis, Semiconductor, Optical Measurement, and Laser-Scattering. As a part of our proprietary 'Micro Active Sampling' (e-breathing technology), we have a sophisticated suction-and-exhaust system for air sample collection and monitoring inside a controlled environment. This isolates the effect of the external environment on measurement to achieve 13% higher accuracy than the industry standards.

## Polludrone<sup>®</sup> Usecases



Smart Campus



**Industrial Research** 



#### **Parameters**

Sensor	ID	Range	Resolution	Min. Detection	Drift	Working Principle	Expected Sensor Life
Suspended Particulate Matters with size less than 2.5µ (PM <sub>2.5</sub> )	OZPM_1*	Upto 5000 µg/m <sup>3</sup>	0.1 µg/m <sup>3</sup>	1 µg/m <sup>3</sup>	N.A.	Optical Particle Counter	5000 hours
Suspended Particulate Matters with size less than $10\mu$ (PM <sub>10</sub> )							
Carbon Monoxide (CO)	OZCO_1*	0-5 ppm	0.01 ppm	0.01 ppm	< 1ppm / year	Electrochemical	
	OZCO_4	0-50 ppm	0.05 ppm	0.05 ppm	< 2% / Month		
	OZCO_2	0-100 ppm	0.1 ppm	0.1 ppm	< 2% / Month		
	OZCO_3	0-1000 ppm	0.75 ppm	0.75 ppm	< 2% / Month		
Carbon Dioxide (CO <sub>2</sub> )	OZCO2_1*	0-5000 ppm	1 ppm	400 ppm	±5 ppm / Year	Non Despersive Infrared	
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 Semiconductor Sensing	
Humidity	OZHUM_1*	100% Rh	0.10% ppm	0.10%	N.A.		
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.	Photoconductivity	3 Years
UV Radiation	OZUV_1*	0.1-100,000 uW/cm²	0.1 uW/cm <sup>2</sup>	0.1 uW/cm <sup>2</sup>	N.A.		
Visible Light Intensity		Up to 5000 Lux	0.1 Lux	0.1 Lux	N.A.		

\* Indicates standard delivery timeline

#### **External Modules (optional)**



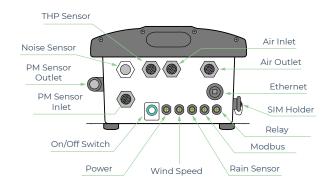
Anemometer OZWSD\_1\*

Wind Speed: 0-40 m/s Wind Direction: 0-359° Working Principle: Ultrasonic



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

## **Specifications**



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			

#### Accurate Air Quality Monitoring And Advanced Data Analytics





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