

Polludrone® Variants

Variants	Applications	Parameters
Polludrone® Lite	General Purpose, Smart campus	PM _{2.5} , PM ₁₀ , CO ₂ , CO, Noise, Light, UV-Radiation, Temperature, Humidity, Pressure
Polludrone® Smart	Extensive, Smart cities	PM _{2.5} , PM ₁₀ , CO ₂ , CO, SO ₂ , NO, NO ₂ , O ₃ , Noise, Light, UV - Radiation, Temperature, Humidity, Pressure
Polludrone® Pro	Critical, Industrial fenceline	PM ₁ , PM _{2.5} , PM ₁₀ , PM ₁₀₀ (TSP), CO ₂ , CO, SO ₂ , NO, NO ₂ , O ₃ , H ₂ S, 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	
Suspended Particulate Matters with size less than 2.5µ (PM _{2.5})	OZPM_1*	Upto 5000 µg/m ³	0.1 µg/m ³	1 µg/m ³	N.A.	Optical Particle Counter	18 Months	
Suspended Particulate Matters with size less than 10µ (PM ₁₀)								
Ultra Fine Particulate Matters with size less than 1µ (PM ₁)								
Total Suspended Particulates (TSP) (PM ₁₀₀)								
Carbon Monoxide (CO)	OZCO_1*	0-5 ppm	0.01 ppm	0.01 ppm	< 1ppm / year	Electrochemical	2 years	
	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 ₂)	OZCO2_1*	0-5000 ppm	1 ppm	400 ppm	±5 ppm / Year	Non Despersive Infrared		
Nitric Oxide (NO)	OZNO_1*	0-5 ppm	0.001 ppm	0.01 ppm	< 2% / Month	Electrochemical	2 years	
	OZNO_2	0-100 ppm	0.5 ppm	0.5 ppm	±50 ppb / Year			
Nitrogen Dioxide (NO ₂)	OZNO2_1*	0-10 ppm	0.001 ppm	0.01 ppm	±20 ppb / Year			
	OZNO2_2	0-100 ppm	0.2 ppm	0.2 ppm	< 2% / Month			
	OZNO2_3	0-500 ppm	0.5 ppm	0.5 ppm	< 2% / Month			
Ozone (O ₃)	OZO3_1*	0-10 ppm	0.001 ppm	0.01 ppm	±20 ppb / Year			
Oxygen (O ₂)	OZO2_1	(0-25) %VOL	0.1 %VOL	0.1 %VOL	< 2% / Month			
Hydrogen Sulfide (H ₂ S)	OZH2S_1*	0-1.5 ppm	0.001 ppm	0.01 ppm	±100 ppb / Year			
	OZH2S_2	0-50 ppm	0.05 ppm	0.05 ppm	< 2% / Month			
	OZH2S_3	0-200 ppm	0.2 ppm	0.2 ppm	< 2% / Month			
	OZH2S_4	0-2000 ppm	2 ppm	2 ppm	< 2% / Month			
Sulfur Dioxide (SO ₂)	OZSO2_1*	0-10 ppm	0.001 ppm	0.01 ppm	±20 ppb / Year			
	OZSO2_2	0-100 ppm	0.2 ppm	0.2 ppm	< 2% / Month			
	OZSO2_3	0-2000 ppm	5 ppm	5 ppm	< 2% / Month			
Ambient Noise	OZLN_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.			
Pyranometer Solar Radiation 300 - 1100 nm	Light Intensity	OZUV_1	Up to 1,00,000 Lux	1 Lux	1 Lux	N.A.	Photoconductivity	3 Years
	Visible Light		Upto 5000 Lux	0.1 Lux	0.1 Lux	N.A.		
	UV Radiation		0.1-100,000 uW/cm ²	0.1 uW/cm ²	0.1 uW/cm ²	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® 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