

Polludrone® Variants

Variants	Applications	Parameters
Polludrone® Lite	General Purpose	PM _{2.5} , PM ₁₀ , CO ₂ , CO, Noise, Light, UV-Radiation, Temperature, Humidity, Pressure
Polludrone® Smart	Extensive	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	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
External Modules	Optional	Wind Speed and Direction, Rainfall, Pressure (integrable with all 3 variants)

Parameters

ID	Parameter	Range	Resolution	Min. Detection	Drift	Working Principle	Measurement Principle	Sample Rate	Expected Sensor Life		
OZPM_1	Suspended Particulate Matters with size less than 2.5μ (PM _{2.5})	Upto 5000 μg/m ³	0.1 μg/m ³	1 μg/m ³	N.A.	Optical Particle Counter	Active Sampling	1 L /min	5000 hours		
OZPM_2	Suspended Particulate Matters with size less than 10μ (PM ₁₀)										
OZPM_3	Ultra Fine Particulate Matters with size less than 1μ (PM ₁)										
OZPM_4	Total Suspended Particulates (PM ₁₀₀)	Upto 30 mg/m ³	1 ppm	400 ppm	±5 ppm / Year	NDIR		325 mL per sample	2 years		
OZCO2_1	Carbon Dioxide (CO ₂)	0-5000 ppm									
OZCO_1	Carbon Monoxide (CO)	0-5 ppm				0.01 ppm				0.01 ppm	< 1ppm/year
OZSO2_1	Sulfur Dioxide (SO ₂)	0-10 ppm				0.001 ppm				0.01 ppm	±20 ppb / Year
OZNO_1	Nitric Oxide (NO)	0-5 ppm				0.001 ppm				0.01 ppm	±50 ppb / Year
OZNO2_1	Nitrogen Dioxide (NO ₂)	0-10 ppm				0.001 ppm				0.01 ppm	±20 ppb / Year
OZO3_1	Ozone (O ₃)	0-20 ppm				0.001 ppm				0.01 ppm	±20 ppb / Year
OZH2S_1	Hydrogen Sulfide (H ₂ S)	0-1.5 ppm				0.001 ppm				0.01 ppm	±100 ppb / Year
OZN_1	Ambient Noise	Upto 140 dB	1 dB	0.5 dB	N.A.	Capacitive	Passive Monitoring	N.A.	3 years		
OZLI_1	Light Intensity	Up to 1,00,000 Lux	1 Lux	1 Lux	N.A.	Photo-conductivity					
OZUV_1	UV Radiation (0-12 UVI)	0.1-100,000 uW/cm2	0.1 uW/cm ²	0.1 uW/cm ²	N.A.						
OZVLI_1	Visible Light Intensity	Up to 5000 Lux	0.1 Lux	0.1 Lux	N.A.				Solid state semi conductor sensing	2 years	
OZTEMP_1	Temperature	-40 to 125°C	0.01°C	-40 °C	N.A.						
OZHUM_1	Humidity	100% Rh	0.1%	0.1%	N.A.						
OZPRES_1	Barometric Pressure	300-1100 hPa	0.18 Pa	300 hPa	N.A.						

Note - If a custom range and resolution of a sensor is required, please contact our team.

External Modules (optional)



Rain Sensor

- Tipping Bucket
- In mm / inch



Wind Sensor

- Ultrasonic sensor
- 0-359°, 0-40 m/s



ES France - Département Bio-tests & Industries
127 rue de Buzenval BP 26 - 92380 Garches



Tél. 01 47 95 99 90
Fax. 01 47 01 16 22



e-mail : bio@es-france.com
Site Web : www.es-france.com