

# Polludrone® Variants

Variants	Applications	Parameters
Polludrone® Lite	General Purpose	PM <sub>2.5</sub> , PM <sub>10</sub> , CO <sub>2</sub> , CO, Noise, Light, UV-Radiation, Temperature, Humidity, Pressure
Polludrone® Smart	Extensive	PM <sub>2.5</sub> , PM <sub>10</sub> , CO <sub>2</sub> , CO, SO <sub>2</sub> , NO, NO <sub>2</sub> , O <sub>3</sub> , Noise, Light, UV - Radiation, Temperature, Humidity, Pressure
Polludrone® Pro	Critical	PM <sub>1</sub> , PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>100</sub> (TSP), CO <sub>2</sub> , CO, SO <sub>2</sub> , NO, NO <sub>2</sub> , O <sub>3</sub> , H <sub>2</sub> 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 <sub>2.5</sub> )	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	Active Sampling	1 L /min	5000 hours	
OZPM_2	Suspended Particulate Matters with size less than 10µ (PM <sub>10</sub> )									
OZPM_3	Ultra Fine Particulate Matters with size less than 1µ (PM <sub>1</sub> )									
OZPM_4	Total Suspended Particulates (PM <sub>100</sub> )									
OZCO2_1	Carbon Dioxide (CO <sub>2</sub> )	0-5000 ppm	1 ppm	400 ppm	±5 ppm / Year	NDIR		325 mL per sample		2 years
OZCO_1	Carbon Monoxide (CO)	0-5 ppm	0.01 ppm	0.01 ppm	< 1ppm/year	Electrochemical				
OZSO2_1	Sulfur Dioxide (SO <sub>2</sub> )	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 <sub>2</sub> )	0-10 ppm	0.001 ppm	0.01 ppm	±20 ppb / Year					
OZO3_1	Ozone (O <sub>3</sub> )	0-20 ppm	0.001 ppm	0.01 ppm	±20 ppb / Year					
OZH2S_1	Hydrogen Sulfide (H <sub>2</sub> 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.		
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/cm <sup>2</sup>	0.1 uW/cm <sup>2</sup>	0.1 uW/cm <sup>2</sup>	N.A.					
OZVLI_1	Visible Light Intensity	Up to 5000 Lux	0.1 Lux	0.1 Lux	N.A.	Solid state semi conductor sensing				
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.			2 years		

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