

Master Parameter Datasheet

Dust Particulates

Parameter	ID	Range	Resolution	Min. Det.	Working Principle	Expected Sensor Life
 Particulate Matter (PM _{2.5} , PM ₁₀ , PM ₁ , PM ₁₀₀)	OZPM_1*	Upto 5000 µg/m ³ for PM ₁ , PM _{2.5} , PM ₁₀ Upto 30 mg/m ³ for PM ₁₀₀	0.1 µg/m ³	1 µg/m ³	Optical Particle Counter	18 Months

Odourants

Parameter	ID	Range	Resolution	Min. Det.	Working Principle	Expected Sensor Life
 Hydrogen Sulfide (H ₂ S)	OZH2S_1* OZH2S_2 OZH2S_3 OZH2S_4	0-1.5 ppm 0-50 ppm 0-200 ppm 0-2000 ppm	0.001 ppm 0.05 ppm 0.2 ppm 2 ppm	0.01 ppm 0.05 ppm 0.2 ppm 2 ppm	Electrochemical	2 Years
 Ammonia (NH ₃)	OZNH3_1* OZNH3_2* OZNH3_3	0-20 ppm 0-100 ppm 0-1000 ppm	0.3 ppm 0.3 ppm 2 ppm	0.3 ppm 0.3 ppm 2 ppm	Electrochemical	2 Years
 Chlorine (Cl ₂)	OZCl2_1* OZCl2_2	0-20 ppm 0-50 ppm	0.05 ppm 0.1 ppm	0.05 ppm 0.1 ppm	Electrochemical	2 Years
 Formaldehyde (CH ₂ O)	OZCH2O_1* OZCH2O_2	0-10 ppm 0-50 ppm	0.05 ppm 0.1 ppm	0.05 ppm 0.1 ppm	Electrochemical	2 Years
 Total Volatile Organic Compounds (VOC)	OZTVOC_1* OZTVOC_2	0-40 ppm 0-200 ppm	0.001 ppm 0.10 ppm	0.005 ppm 0.10 ppm	Photo Ionization Detection (PID)	2 Years #
 Methyl Mercaptan (CH ₃ SH)	OZCH3SH_1*	0-10 ppm	0.1 ppm	0.1 ppm	Electrochemical	2 Years
 Hydrogen Chloride (HCl)	OZHCl_1 OZHCl_2	0-50 ppm 0-100 ppm	0.5 ppm 1 ppm	0.5 ppm 1 ppm	Electrochemical	2 Years
 Sulfur Dioxide (SO ₂)	OZSO2_1* OZSO2_2 OZSO2_3	0-10 ppm 0-100 ppm 0-2000 ppm	0.001 ppm 0.2 ppm 5 ppm	0.01 ppm 0.2 ppm 5 ppm	Electrochemical	2 Years

Note: # TVOC Sensor Housing: 2 Years, TVOC Lamp is user replaceable: 5,000 hours

Noise

Parameter	ID	Range	Resolution	Min. Det.	Working Principle	Expected Sensor Life
 Noise	OZN_1*	Up to 140 dB	1 dB	0.5 dB	Capacitive	2 Years

Polluting Gases

Parameter	ID	Range	Resolution	Min. Det.	Working Principle	Expected Sensor Life
	Nitrogen Dioxide (NO ₂)	OZNO2_1*	0-10 ppm	0.001 ppm	Electrochemical	2 Years
		OZNO2_2	0-100 ppm	0.2 ppm		
		OZNO2_3	0-500 ppm	0.5 ppm		
	Carbon Monoxide (CO)	OZCO_1*	0-5 ppm	0.01 ppm	Electrochemical	2 Years
		OZCO_4	0-50 ppm	0.05 ppm		
		OZCO_2	0-100 ppm	0.1 ppm		
		OZCO_3	0-1000 ppm	0.75 ppm		
	Nitric Oxide (NO)	OZNO_1*	0-5 ppm	0.001 ppm	Electrochemical	2 Years
		OZNO_2	0-100 ppm	0.5 ppm		

Greenhouse Gases

Parameter		ID	Range	Resolution	Min. Det.	Working Principle	Expected Sensor Life
	Carbon Dioxide (CO ₂)	OZCO2_1*	0-5000 ppm	1 ppm	400 ppm	Non-Dispersive Infrared	2 Years
	Methane (CH ₄)	OZCH4_1	500-1500 ppm	1 ppm	500 ppm	Molecular Property Spectrometer (MPS)	2 Years
		OZCH4_2	50-10,00,000 ppm	1 ppm	50 ppm		
	Ozone (O ₃)	OZO3_1	0-10 ppm	0.001 ppm	0.01 ppm	Electrochemical	2 Years
	Oxygen (O ₂)	OZO2_1	(0-25) %VOL	0.1 %VOL	0.1 %VOL	Electrochemical	2 Years

Weather

Parameter	ID	Range	Resolution	Min. Det.	Working Principle	Expected Sensor Life
Wind Speed	OZWSD_1	0-40m/s	0.1 m/s	0.1 m/s	Ultrasonic	2 Years
Wind Direction		0-359°	1°	1°	Ultrasonic	2 Years
Rain	OZRAIN_1	N.A	0.25 mm	0.25 mm	Tipping Bucket	2 Years
Flood	OZFLOOD_1	0-cm to 765-cm	1 cm	1 cm	Ultrasonic	2 Years
Temperature	OZTEMP_1	-40 to 125 deg cel	0.01 deg cel	-40	Solid State Semiconductor Sensing	2 Years
Humidity	OZHUM_1	100% Rh	0.10%	0.10%	Solid State Semiconductor Sensing	2 Years
Pressure	OZPRES_1	300-1100 hPa	0.18 Pa	300 hPa	Solid State Semiconductor Sensing	2 Years
Pyranometer Solar Radiation 300 - 1100 nm	OZUV_1	Up to 1,00,000 (Light Intensity)	1 Lux	1 Lux	Photoconductivity	3 Years
		0.1-100,000 uW/cm2 (UV Radiation)	0.1 uW/cm2	0.1 uW/cm2		
		Upto 5000 Lux (Visible Light)	0.1 Lux	0.1 Lux		
		0-12 (UV Index)	-	-		

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.

*Indicates standard delivery timeline