

Dustroid® Variants

Variants	Applications	Parameters
Dustroid® Smart	Construction and Mining	PM ₁ , PM _{2.5} , PM ₁₀ , PM ₁₀₀ (TSP), Temperature, Humidity, Pressure
Dustroid® Pro <i>(with heated inlet)</i>	Quarrying, Sea Ports (for High Humidity Regions)	PM ₁ , PM _{2.5} , PM ₁₀ , PM ₁₀₀ (TSP), Temperature, Humidity, Pressure
Dustroid® Max	For Critical Applications	Industrial Dust Sensor, Light, UV, Noise, Temperature, Humidity, Pressure and Vibration

Parameters

Sensor	ID	Range	Resolution	Min. Detection	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	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)		Upto 30 mg/m ³					
Ambient Noise	OZN_1	Upto 140 dB	1 dB	0.5 dB	Capacitive	2 years	
Temperature	OZTEMP_1	-40 to 125°C	0.01°C	-40 °C	Solid State Semiconductor Sensing		
Humidity	OZHUM_1	100% Rh	0.10%	0.10%			
Barometric Pressure	OZPRES_1	300-1100 hPa	0.18 Pa	300 hPa			
Pyranometer Solar Radiation 300 - 1100 nm	OZUV_1	Light Intensity	Up to 1,00,000 Lux	1 Lux	1 Lux	Photoconductivity	3 years
		Visible Light	Upto 5000 Lux	0.1 Lux	0.1 Lux		
		UV Radiation	0.1-100,000 uW/cm ²	0.1 uW/cm ²	0.1 uW/cm ²		
		UV Index	0-12	-	-		

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

 <p>Anemometer OZWSD_1* Wind Speed: 0-40 m/s Wind Direction: 0-359° Working Principle: Ultrasonic</p>	 <p>Rain Gauge OZRAIN_1* Resolution: 0.25 mm Working Principle: Tipping Bucket</p>	 <p>Noise Sensor OZN_1* Working Principle: Capacitive Range: Upto 140 dB</p>	 <p>Vibration Sensors PPV: +/- 2G Range frequency: 0.5 - 250 Hz Range velocity: ±50 mm/s (±2 in/s) Working Principle: MEMS</p>
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*Indicates standard delivery timeline.

NOTE: Vibration & Class I Noise sensors are available as optional features upon specific customer request.