

Odosense[®] Pro

Odor Monitoring Equipment



Odosense is the real-time odour monitoring system. It is designed to continuously monitor various odourful and toxic gases. Odosense utilises a combination of sensor technology alongside data analysis techniques to get real-time readings that measure low, medium, and high odour intensity. With the help of meteorological data, Odosense can trace the odourant dispersion plume incited by conditions like wind speed and wind direction.



Ultimate
Durability



Weather
Resistant



Compact and
Lightweight



Solar
Powered



Retrofit
Design



Real-Time
Data



Tamper
Proof



Network
Agnostic



Over-The-Air
Updates



3-level
Calibration

Our Technology

Our odour monitoring device works on proven working principles such as NDIR, PID, Electrochemical Analysis, Semiconductor, Optical Measurement. As a part of our proprietary 'Micro Active Sampling' (e-breathing technology), we also have a sophisticated suction-and-exhaust system for air sample collection and monitoring inside a controlled environment. This isolates the effect of the external environment on measurement to achieve 13% higher accuracy than the industry standards.

Odosense[®] Usecases



Landfills



Industries

Parameters

Sensor	ID	Range	Resolution	Min. Detection	Drift	Working Principle	Expected Sensor Life	
Sulfur Dioxide (SO ₂)	OZSO2_1*	0-10 ppm	0.001 ppm	0.01 ppm	±20 ppb / Year	Electrochemical	2 years	
	OZSO2_2	0-100 ppm	0.2 ppm	0.2 ppm	< 2% / Month			
	OZSO2_3	0-2000 ppm	5 ppm	5 ppm	< 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			
Ammonia (NH ₃)	OZNH3_1*	0-20 ppm	0.3 ppm	0.3 ppm	< 2% / Month			
	OZNH3_2*	0-100 ppm	0.3 ppm	0.3 ppm	< 2% / Month			
	OZNH3_3	0-1000 ppm	2 ppm	2 ppm	< 2% / Month			
Methyl Mercaptan (CH ₃ SH)	OZCH3SH_1*	0-10 ppm	0.1 ppm	0.1 ppm	< 2% / Month			
Total Volatile Organic Compounds (VOC)	OZTVOC_1*	0-40 ppm	0.001 ppm	0.005 ppm	N.A.	Photo Ionization Detection (PID)	2 years#	
	OZTVOC_2	0-200 ppm	0.10 ppm	0.10 ppm	N.A.			
Formaldehyde (CH ₂ O)	OZCH2O_1*	0-10 ppm	0.05 ppm	0.05 ppm	< 2% / Month	Electrochemical	2 years	
	OZCH2O_2	0-50 ppm	0.1 ppm	0.1 ppm	< 2% / Month			
Nitrogen Dioxide (NO ₂)		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			
Chlorine (Cl ₂)	OZCl2_1*	0-20 ppm	0.05 ppm	0.05 ppm	< 2% / Month			
	OZCl2_2	0 - 50 ppm	0.1 ppm	0.1 ppm	< 2% / Month			
Temperature	OZTEMP_1*	-40 to 125°C	0.01°C	-40 °C	N.A.			Solid State Semiconductor Sensing
Humidity	OZHUM_1*	100% Rh	0.1%	0.1%	N.A.			
Barometric Pressure	OZPRES_1*	300-1100 hPa	0.18 Pa	300 hPa	N.A.			

TVOC Sensor Housing: 2 years, TVOC Lamp is user replaceable: 5,000 hours

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

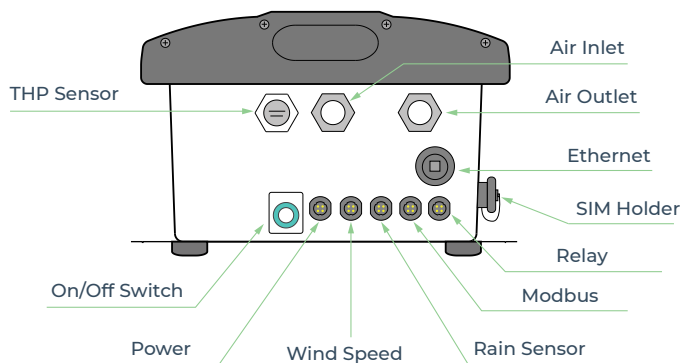
Range frequency: 0.5 - 250 Hz

Range velocity: ±50 mm/s (±2 in/s)

Working Principle: MEMS

*Indicates standard delivery timeline.

Specifications



Size	360mm (H) x 328mm (W) x 200mm (D)
Weight	7.2 Kg (instrument weight)
Material	Aluminum Magnesium Alloy, Mild-steel (With Powder Coating), FRP
Certifications	CE, FCC, NEMA 4X, IP66, RoHS

Changing the way Industries monitor air quality



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