Odosense[®] Lite



Real-time odour monitor



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

Real-Time

Data







Compact and

Lightweight

Solar Powered



Over-The-Air Updates





3-level Calibration

Our Technology

Our Odour monitor works on proven working principles like NDIR, Electrochemical Analysis, Semiconductor, Optical Measurement. As a part of our proprietary 'Micro Active Sampling' (e-breathing technology), we 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









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		
Temperature	OZTEMP_1*	-40 to 125°C	0.01°C	-40 °C	N.A.	Solid State Semiconductor Sensing	2 years
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.		

Rain Gauge

Resolution: 0.25 mm

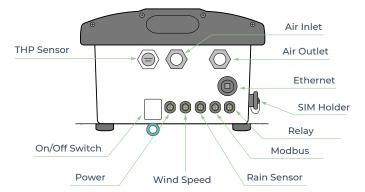
OZRAIN_1*

*Indicates standard delivery timeline.



Anemometer OZWSD_1* Wind Speed: 0-40 m/s Wind Direction: 0-359° Working Principle: Ultrasonic

Specifications



Communication

Data Interval	2-30 minutes (configurable)		
Data-push Protocol	HTTP post request to host-server		
Data-pull	HTTP request on device IP		
Firmware Updates	Over-The-Air Firmware Update		
Standby Connectivity	GSM (2G/3G/4G) for remote diagnosis, FOTA updates, and cloud calibration		

	Connectivity Options	Specifications
Wireless	GSM LoRa LTE NB-lot Sigfox Wifi Satellite	Global 2G / 3G / 4G 868 MHz / 915 MHz CAT-M1 CAT-NB1 868 to 869 MHz, 902 to 928 MHz AP Mode and Station Mode -
Ethernet Wired Modbus Relay Output		Static / DHCP Configuration RS485 RTU / TCP 2 Channel

Changing the way Industries monitor air quality

Get in touch



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Vibration Sensors

PPV: +/- 2G Range frequency: 0.5 - 250 Hz Range velocity: ±50 mm/s (±2 in/s) Working Principle: MEMS

General Specs

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