

Odour Monitoring System



Odosense is the real-time odour emission tracking solution. Odosense continuously detects, measures and monitors the odourful gaseous contaminants. Oizom Odour Monitoring Solution comprises of a network of e-noses (Odosense) positioned on the periphery of the site. The solution incorporates Odour Atmospheric Dispersion Modelling for predicting odour impact on the surrounding area depending on meteorological conditions. With the help of meteorological data, Odosense can trace the odourant dispersion plume incited by conditions like wind speed and wind direction. Odosense is a fully solar-powered solution with wireless data transmission. This makes it an ideal choice for landfill sites, wastewater treatment facilities, fertilizers, paper-pulp industries and soil-treatment sites, etc.

Product Features



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 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.

Product Usecases



STP / WWTP

Monitoring odour intensity in and around water treatment plants can help regulate odour emission by appropriate maintenance on time. It can avoid odour nuisance in the surrounding residential areas.

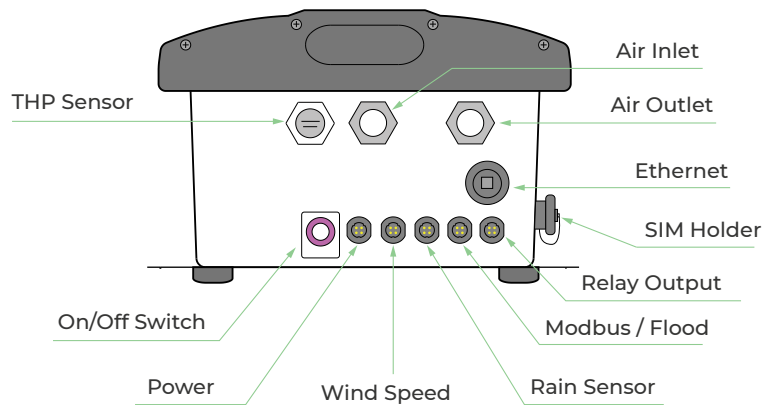


ETP

Emissions of carcinogenic and other hazardous gases from the effluent treatment process can be monitored in real-time and preventive actions can be taken immediately.

General 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 Certified, PTCRB Certified Communication Module



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

Technical Specifications

Avg. Power Consumption	5 Watt (Actual consumption depends upon the number of parameters)
Power Input Options	External 110-230V AC 50-60Hz, 40Watt Monocrystal Solar Panel
Operating Temperature	-20 °C to 60 °C

Sensing Parameters

ID	Parameter	Range	Resolution	Min. Detection	Drift	Working Principle	Measurement Principle	Sample Rate	Expected Sensor Life
OZH2S_1	Hydrogen Sulfide (H ₂ S)	0-10 ppm	0.001 ppm	0.01 ppm	±100 ppb / Year	Electrochemical	Active Sampling	325 mL per sample	2 years
OZNH3_1	Ammonia (NH ₃)	0-20 ppm	0.3 ppm	0.3 ppm	< 2% / Month				
OZSO2_1	Sulfur Dioxide (SO ₂)	0-20 ppm	0.001 ppm	0.01 ppm	±20 ppb / Year				
OZTEMP_1	Temperature	-40°C to 125 °C	0.01°C	-40°C	N.A.	Solid State Semiconductor Sensing	Passive Monitoring	N.A.	
OZHUM_1	Humidity	100% Rh	0.1%	0.1%	N.A.				

External Modules (optional)



Accurate Air Quality Monitoring And Advanced Data Analytics



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