

Odosense[®] Lite

Real-time odour monitor



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. 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 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



STP / WWTP



ETP

Parameters

ID	Parameter	Range	Resolution	Min. Detection	Drift	Working Principle	Measurement Principle	Sample Rate	Expected Sensor Life
OZH2S_1	Hydrogen Sulfide (H ₂ S)	0-1.5 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.				

Note - If a custom range and resolution of a sensor is required, please contact our team.

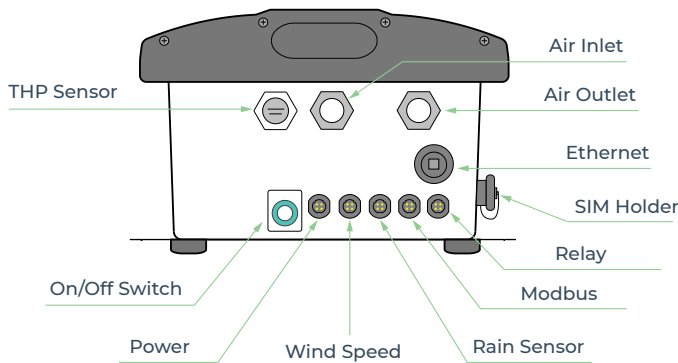
External Modules (optional)



Wind Sensor

- Ultrasonic sensor
- 360°, 0-40 m/s

Specifications



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 Certified, PTCRB Certified Communication Module



Communication

Data Interval	2-30 (configurable) minutes
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-IoT Sigfox Wifi	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
Wired	Ethernet Modbus Relay Output	Static / DHCP Configuration RS485 RTU / TCP 2 Channel

Accurate Air Quality Monitoring And Advanced Data Analytics



Get in touch



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