

# Odosense<sup>®</sup> Pro

## Odor Monitoring Equipment



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 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<sup>®</sup> Usecases



Landfills



Industries

# Parameters

| ID        | Parameter                               | Range          | Resolution | Min. Detection | Drift           | Working Principle                 | Measurement Principle | Sample Rate       | Expected Sensor Life |
|-----------|---|----------------|------------|----------------|-----------------|-----------------------------------|-----------------------|-------------------|----------------------|
| OZH2S_1   | Hydrogen Sulfide (H <sub>2</sub> 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 <sub>3</sub> )              | 0-20 ppm       | 0.3 ppm    | 0.3 ppm        | < 2% / Month    |                                   |                       |                   |                      |
| OZCH2O_1  | Formaldehyde (CH <sub>2</sub> O)        | 0-10 ppm       | 0.05 ppm   | 0.05 ppm       | < 2% / Month    |                                   |                       |                   |                      |
| OZCH3SH_1 | Methyl Mercaptan (CH <sub>3</sub> SH)   | 0-10 ppm       | 0.1 ppm    | 0.1 ppm        | < 2% / Month    |                                   |                       |                   |                      |
| OZNO2_1   | Nitrogen Dioxide (NO <sub>2</sub> )     | 0-20 ppm       | 0.001 ppm  | 0.01 ppm       | ±20 ppb / Year  |                                   |                       |                   |                      |
| OZSO2_1   | Sulfur Dioxide (SO <sub>2</sub> )       | 0-20 ppm       | 0.001 ppm  | 0.01 ppm       | ±20 ppb / Year  |                                   |                       |                   |                      |
| OZCl2_1   | Chlorine (Cl <sub>2</sub> )             | 0-20 ppm       | 0.05 ppm   | 0.05 ppm       | < 2% / Month    | PID                               |                       |                   | 5000 hours           |
| OZTVOC_1  | Total Volatile Organic Compounds (TVOC) | 0-40 ppm       | 0.001 ppm  | 0.005 ppm      | N.A.            |                                   |                       |                   |                      |
| OZTEMP_1  | Temperature                             | -40°C to 125°C | 0.01 °C    | -40°C          | N.A.            | Solid State Semiconductor Sensing | Passive Monitoring    | N.A.              | 2 years              |
| 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.

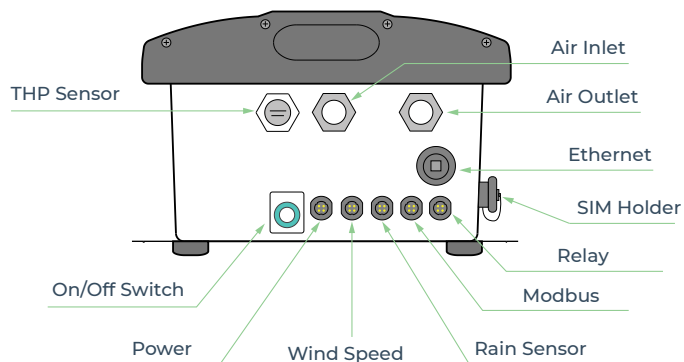
## External Modules (optional)



### Wind Sensor

- Ultrasonic sensor
- 360°, 0-40 m/s

# Specifications



|                |   |
|----------------|---|
| 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        |

Accurate Air Quality Monitoring And Advanced Data Analytics



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