

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



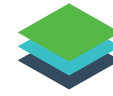
Tamper
Proof



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

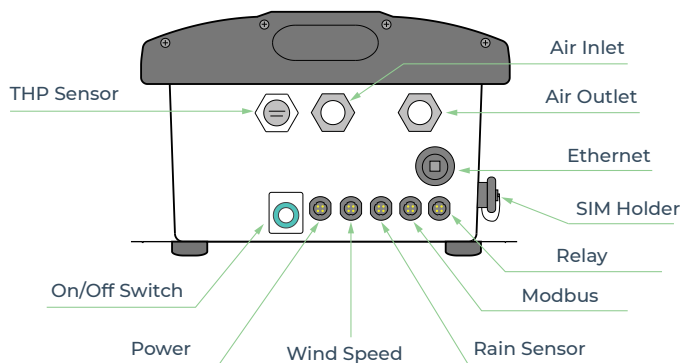
Range frequency: 0.5 - 250 Hz

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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