



OLFOSENSE

Device for area monitoring of environmental conditions



Chemical
defense

Network for odor management

AIRSENSE Analytics and PCA Technologies from Italy have developed OlfoSense, the new control tool designed to implement a network for odor leakage monitoring over large areas, at the perimeter of plants, and at sources.

OlfoSense is a versatile device that can be used also for urban air monitoring, putting you in constant touch with factors that affect public quality of life.

Chemical and petrochemical plants are high impact and entail environmental risks. People often complain about odors and this can lead to increasing fears for public health. An OlfoSense network guarantees protection in such dangerous cases, where the Bureau of Environmental Protection can react immediately if thresholds are exceeded.

Technology

- Photoionization Detector (PID)
- 2 electrochemical cells (ECD)
- 4 metal oxide semiconductors (MOS)
- Optical particle counter (OPC)

OlfoSense controls Odor level (OU/m³), total VOCs (Volatile Organic Compounds), H₂S, NH₃, PM₁₀, PM_{2.5}, PM₁ concentrations.



Important features of the OlfoSense

- 24/7 monitoring
- Wireless sensor network
- Outdoor operation
- Combination of 4 kinds of sensors
- Full-time monitoring

In cooperation with

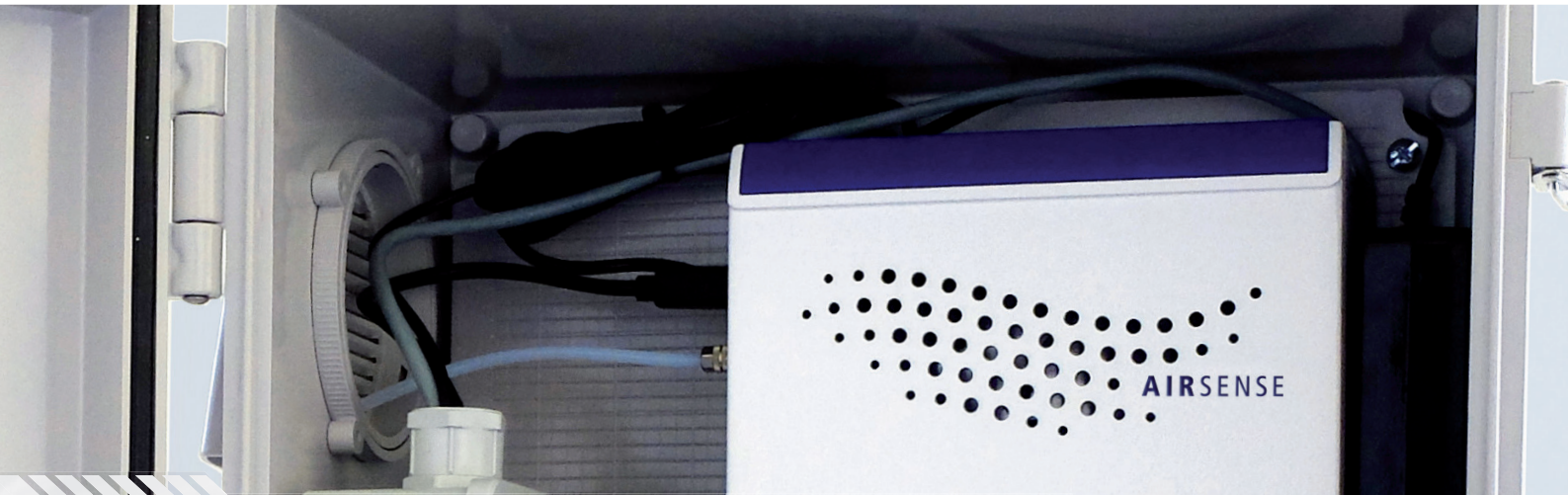


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Alarms

It is very easy to set threshold values for each OlfoSense by remote control; if thresholds are exceeded, OlfoSense sends an alarm to the operator or to the local authorities. In these cases, it's also possible to activate an external sampling system (canister, ecc.) for chemical-toxicological analysis.

Monitoring parameters

Measure time for cycle	from 30 sec to infinite
Number of cycles in sequence	up to infinite
Flush time	from 50 sec to 7200 sec

Detectors

MOS Sensor Array	Each calibrated with a specific temperature.
VOC detector	PID 10.6 eV – Sensitivity: 5 ppb - 20 ppm, (optional 25 ppb - 200 ppm).
OPC detector	Optical particle counter - Detection limits (PM10): 0.01 $\mu\text{g}/\text{m}^3$ - 1 500 mg/m^3 .
H ₂ S detector	electrochemical cell - Sensitivity: 5 ppb - 50 ppm
NH ₃ detector	electrochemical cell - Sensitivity: 0.5 - 100 ppm

Communications

Data transfer	GPRS / Ethernet / ZigBee module can be added for interconnection between devices
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System Requirements

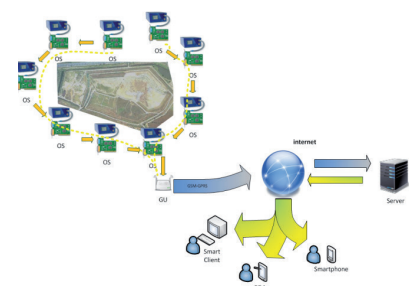
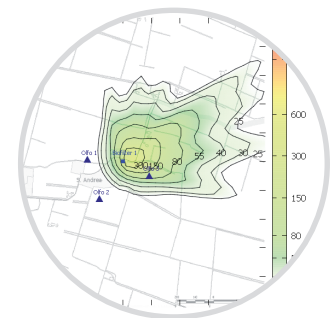
Operating system	Windows XP, Vista, Windows 7, Windows 10
Software	OlfoMuster (setting), OlfoClient (remote control)

Features

Power: 25 W
220V/50Hz
solar panel (optional)

Warranty

12 months



8.0 kg

Dimension
350x450x200
mm