OLFOSENSE
Area monitoring
of environmentalconditions

Chemical defense

AIRSENSE Analytics and PCA Technologies have developed OlfoSense, an Intelligent Sensor Array designed for monitoring odour leakages over large areas, at the perimeter of plants and at sources.

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

Waste Water treatment plants, chemical and petrochemical plants are of high impact and entail environmental risks; people often complain about odours, thus leading to an increased fear for public health. An OlfoSense network guarantees protection in such cases, where the Bureau of Environmental Protection can react immediately if thresholds are exceeded.

Key features

- Outdoor operation
- Continuous monitoring
- Wireless network
- Odour/VOC/NH_3/H_2S/PMx
- Dispersion modelling

In cooperation with

PCA TECHNOLOGIES
MONITORAGGI AMBIENTALI

Technology
- 4 Metal Oxide Semiconductors (MOS)
- Photoionization Detector (PID)
- 2 Electrochemical Cells (ECD)
- Optical Particle Counter (OPC)

Parameters
- Odour concentration (OU/m³)
- Total VOC (Volatile Organic Compounds)
- NH_3 & H_2S
- PM10, PM2.5, PM1

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Alarms

When there are specific limits in concentration to comply with, thresholds can be set within the device allowing plants' owners and Authorities to put in place corrective actions.

Monitoring parameters

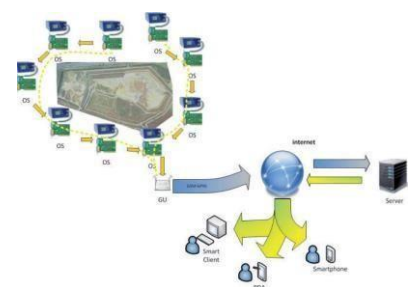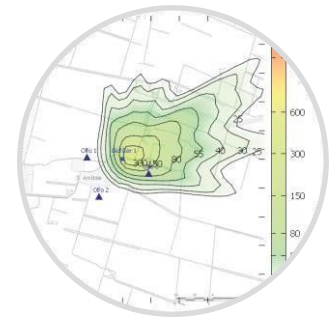|	
Measurement time for cycle	from 30 sec.
Flush time for cycle	from 90 sec.
Number of cycles in sequence	infinite

Detectors

MOS Sensor Array	Each working at 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 μg/m^3 - 1 500 mg/m^3.
H_2S detector	Electrochemical cell - Sensitivity: 5 ppb - 50 ppm
NH_3 detector	Electrochemical cell - Sensitivity: 0.5 - 100 ppm

Communications

Data transfer	UMTS / Ethernet ZigBee module (piloting external devices)

System Requirements

Operating system	Windows XP, Vista, Windows 7, Windows 10
Software	OlfoMuster (setting), OlfoClient (supervision) SMIT (dispersion modelling)

Weight	Size
17 kg	510x460x240 mm

Powering
25W 220V/50Hz