



OLFOSENSE Area monitoring of environmental conditions

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 also, 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.

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defense

Key features

- Outdoor operation
- Continuous monitoring
- Wireless network
- Odour/VOC/NH₃/H₂S/PMx
- Dispersion modelling

In cooperation with



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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)
- NH₃ & H₂S
- PM10, PM2.5, PM1

A R S E N S E A N A L Y T I C S



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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 Flush time for cycle Number of cycles in sequence	from 30 sec. from 90 sec. 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 ₂ S detector	electrochemical cell - Sensitivity: 5 ppb - 50 ppm
NH₃ detector	electrochemical cell - Sensitivity: 0.5 - 100 ppm

Communications

Data transfer	

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UMTS / Ethernet

ZigBee module (piloting external devices)

Powering	Warranty		
25 W 220V/50Hz	12 months		









Made in Germany

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