



## OLFOSENSE

### IOMS – Instrumental Odor Monitoring System



Chemical  
defense

The long and well-established cooperation between AIRSENSE Analytics and PCA Technologies has led to the development of the OlfoSense, an Intelligent Sensor Array devised for assessing the impact caused by odorous emissions on vast areas.

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

Wastewater treatment plants, chemical and petrochemical plants are of high impact and entail environmental risks; people often complain about odors, thus leading to an increased fear for public health. The OlfoSense network guarantees protection in such cases, where Authorities can react immediately when thresholds are exceeded.

#### Technology

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

#### Parameters

- Odour concentration (OU/m<sup>3</sup>)
- Total VOC (Volatile Organic Compounds)
- NH<sub>3</sub> & H<sub>2</sub>S
- PM10, PM2.5, PM1
- Weather data



#### Key features

- Outdoor operation
- Continuous monitoring
- Wireless network
- Odour/VOC/NH<sub>3</sub>/H<sub>2</sub>S/PMx/Meteo
- Dispersion modelling

In cooperation with



Via San Giovanni Bosco n.24  
20005 Pogliano Milanese (MI) - Italy  
Tel +39 02 83530792  
Fax +39 02 37927842  
info@pcatechnologies.com  
www.pcatechnologies.com



## OLFOSENSE

### Environmental monitoring



#### Alarms

Whenever limits of concentration are to comply with, thresholds can be set within the device allowing plant managers and Authorities to put in place corrective actions if an alarm triggers.

#### Monitoring parameters

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

#### Detectors

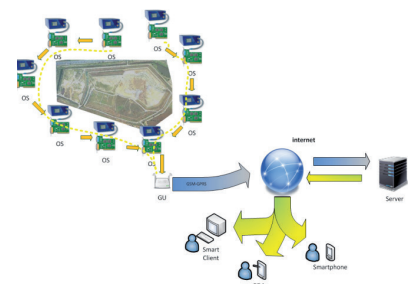
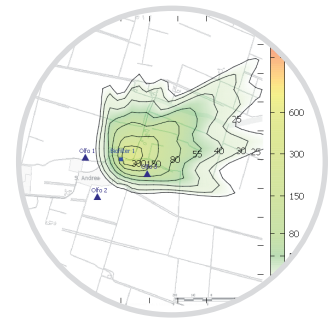
MOS Sensor Array	Each sensor works at specific temperature
VOC detector	PID 10.6 eV Detection range: 0 - 20 ppm
OPC detector	Optical particle counter Detection range: 0.01 $\mu\text{g}/\text{m}^3$ - 1 500 $\text{mg}/\text{m}^3$ .
H <sub>2</sub> S detector	electrochemical cell - Detection range: 0 - 50 ppm
NH <sub>3</sub> detector	electrochemical cell - Detection range: 0 - 100 ppm

#### Communications

Data transfer UMTS  
 ZigBee module (piloting external devices)

#### System Requirements

Operating system Windows XP, Vista, Windows 7, Windows 10  
 Software OlfoMuster software, OlfoClient platform  
 SMIT platform



Weight  
**17**  
kg

Size  
**510x460x240**  
mm

Consumption  
**25W**  
**220V/50Hz**