



NOOS-e™



electronic olfactometer on-line

NOOS-e™ (Nuisance Odour Olfactometry System - electronic) is an electronic device for measuring the strength of odours, utilizing nonspecific detectors of gases and chemical compounds. Signals from the detectors are processed with the use of a special algorithm producing results expressed in European odour units per cubic meter [ou/m³]. The selection of detectors and calibration parameters is unique for each specific system. The concentration of particular gases may also be read, depending on the types of detector used.



The **NOOS-e™** system is capable of measuring the strength of odours in open areas, emitted from large-area sources (landfills, wastewater treatment plants, poultry and pig farms, food industry, odour emitting installations, etc.), emitted from point sources (buildings, enclosed sheds, etc.) and in indoor locations. **NOOS-e™** is an excellent device for on-line odour monitoring at industrial plants that intend to support decisions regarding BAT through continuous monitoring, for companies following social responsibility policies, and for managers of facilities that emit nuisance odours.

The **NOOS-e™** system comprises:

- a box with measuring assembly for supply voltage 12VDC
- software NOOS-e Manager
- end-user software panel

Optional equipment:

- GSM modem for data transmission
- weather station
- weather station with dust sensor PM2,5 and PM10

TIGRET Sp. z o.o.

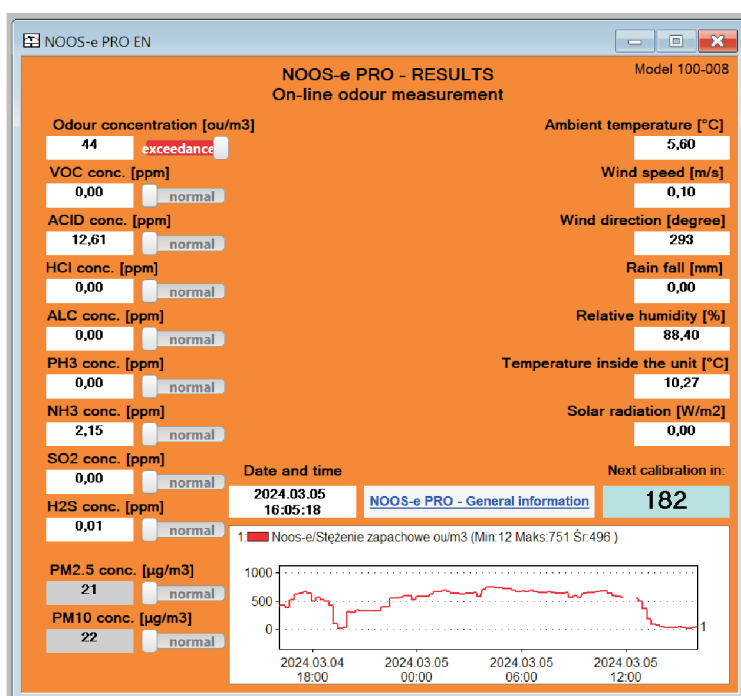
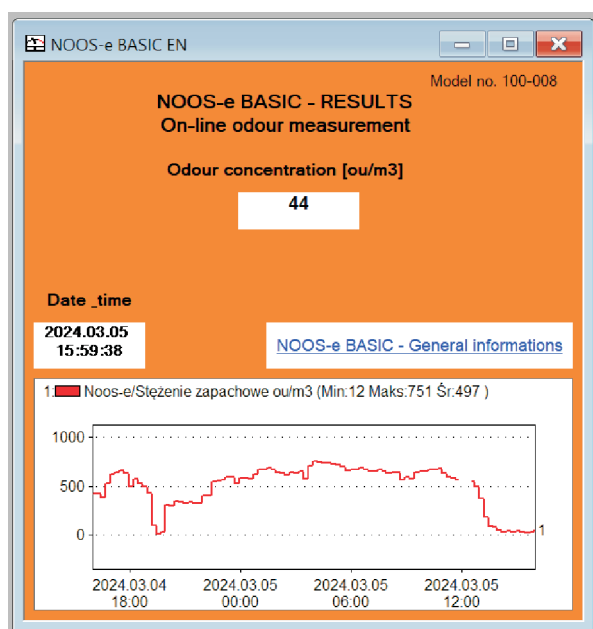
Ul. Warszawska 27, 02-495 Warszawa
Tel. 22 8670528, fax 22 8670530

info@olfasystem.eu

www.olfasystem.eu

Two versions of end-user panel:

- **BASIC** - strength of odours
- **PRO** - strength of odours, gases concentration, weather conditions and/or dust concentration



Technical specification:

- measurement range of strength of odours: 0 to 5000 ou_E/m³ (linear), 5001 to 100000 ou_E/m³ (non-linear)
- average inaccuracy: less than +/- 20% (within linear range)
- sampling: forced
- cycle measurement time: 165 seconds
- filter: universal olfactometry filter
- IP protection: IP65
- data transmission: Ethernet, GSM (option)
- pre-installed software: NOOS-e Manager
- communication with PC: Windows based
- housing: stainless steel
- voltage supply: 12 VDC
- power consumption: < 25 W
- weight: 5-8 kg (accessories dependent)

Operational condition:

- ambient temperature: -20°C +50°C (-4°F ... 122°F)
- relative humidity: 10-90%
- barometric pressure: 1010 hPa +/-10%
- installation place: outside or inside
- calibration service: at least 1 a year (calibration certificate)
- sensors' operational time: 18-36 months (environment dependent)
- factory calibration: electronic, gas and olfactometric
- certificates: calibration, CE, RoHS

Optional equipment:

- weather station, dust sensor, GSM modem.

Measurement range for individual gases:

- VOC total: 0-40 ppm
- PH3: 0-5 ppm
- NH3: 0-50 ppm
- SO2: 0-1 ppm
- HCl: 0-20 ppm
- H2S: 0-10 ppm
- alcohols R3COH: 0-100 ppm
- acid CH3COOH: 0-100 ppm

Versions:

- NOOS-e™ BASIC / Ethernet
- NOOS-e™ BASIC / GSM
- NOOS-e™ PRO / Ethernet
- NOOS-e™ PRO / GSM
- NOOS-e™ PRO / Ethernet + weather station
- NOOS-e™ PRO / GSM + weather station
- NOOS-e™ PRO / Ethernet + weather station + dust sensor
- NOOS-e™ PRO / GSM + weather station + dust sensor



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