

Monitoring of Odors

Most of ambient air monitoring stations is measuring concentration of pollutants with direct, or indirect impact on human health and natural environment.

Inconvenient odors may be caused by different trace pollutants. Human nose is more sensitive for those than most of the analyzers. It is also not necessarily sure that odor feeling caused by several “odor pollutants” would add up.

Instrument to determine odor effect of a certain gas sample are called olfactometers.

Portable, mobile or on-line stationary odor monitoring analytic instrumentation is interpreting the gas detector information in terms of odor units. Proper interpretation is periodically set using olfactometers.

Infield Olfactometer



- Conduct daily odor emissions monitoring of industrial operation
- Determine odor source contributions
- Verify lab results and dispersion model predictions

Intelligent Personal Olfactometer

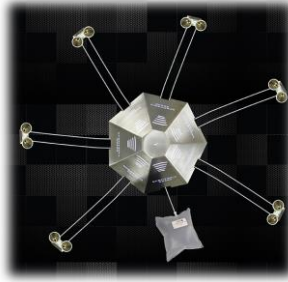


Intelligent Personal Olfactometer represents the next evolution in personal olfactometry. This automated olfactometer can conduct full odor analysis including YES/NO and Hedonic Tone test modes in full accordance to the international EN13725 standard.

Portable Olfactometer



- Conduct on site odor measurement
- Determine Odor Concentration in OU/m³ per EN13725 Standard
- Conduct Hedonic Tone assessment of odor emissions
- Conduct panelist training and N-butanol screening



Olfactometer is an advance mobile 6 station portable olfactometer. The Six Station Portable Olfactometer is used to assess odor concentration from a sample using 2 presentation modes (Binary or Yes/No) by fulfilling the requirements of the EN13725 and VDI 3881 standards.

- Odor analysis to all standards
- Portability without compromise
- Portable air supply unit

Scientific Olfactometer



Scientific Olfactometer is a specialized multi-sensory olfactometer with EEG and FNIR capabilities for advance psychological and physiological research and treatment. It has been used by researchers and doctors to research and treat a variety of disorders including Post Traumatic Stress disorder.

Laboratory Olfactometer



- Determine Odor Concentration in OU/m³ per EN13725 Standard
- Conduct Hedonic Tone assessment of odor emissions
- Conduct panellist training and N-butanol screening

Fixed Stations



Ambient odor emission monitoring based on high accuracy (ppb level) detection of odorous gases such as H₂S, Ammonia, VOCs, and SO₂. The flexible intelligent station allows live monitoring of plant emissions on Scentroid's cloud servers. Odor emission is reported in OU/m³ based on correlation determined based on periodic measurements using field olfactometry.

- Flexible sensing and modular design
- Self-configuration for plug and play installation
- Time synchronized readings

Flying Laboratory



Can be used to sample and analyze ambient air at heights of up to 150 meters above ground level that was previously impossible to accomplish. Air quality mapping, model verification, analysis of potentially dangerous sites are all made possible by this novel innovation.

- Sampling from hazardous sources
- Direct flare plume sampling
- Continuous chemical monitoring
- Above 30 chemicals
- Dust monitoring
- Thermal imaging



The drone adds a new dimension to air sampling. The drone can be used to sample ambient air at heights of up to 125 meters above ground level or directly sample from stack plumes. Height sampling and direct plume sampling opens a new avenue that can be used to increase accuracy of emission and impact assessment.

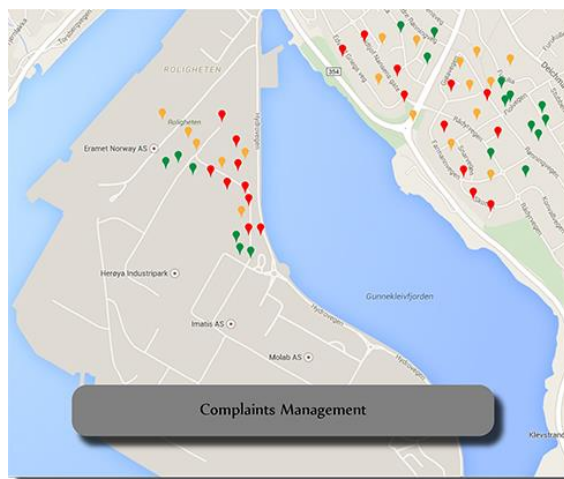
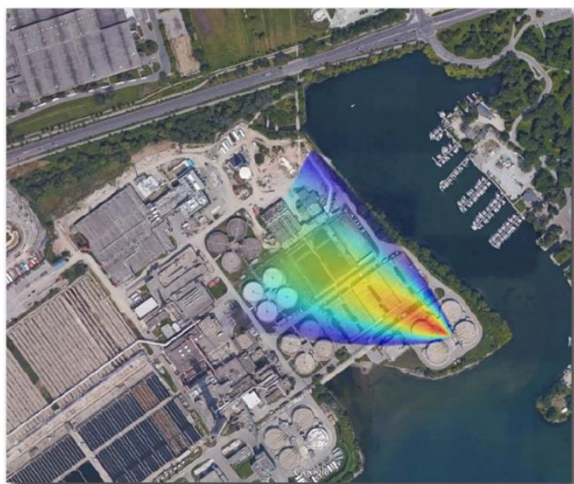
Vigi e-nose



- Isothermal gas chromatograph
- Automatic calibration/validation of the data, with embeded permeation tube for sulfurs
- Continuous monitoring with automatic online sampling
- Extremely low maintenance
- Intelligent system with tunable and interactive alarm levels
- Monitored compounds are: H₂S / SO₂ / MM / EM / DMS / DMDS / DES / Total VOC / TBM / NPM / 2BM / IBM / NBM / THT / IPM
- In accordance to standards: ISO 19739:2004, DIN 51855/7, ASTM D 7493-08, EN13 725 / ASTM 679-E04

The vigi e-nose is the first analyzer able to track VOC & Sulfurs at ppb/ ppt levels. It is more sensitive than human nose. It is an auto GC (gas chromatograph based) with specific detector for sulfurs and VOC.

TOMS (Total odor management system)



TOMS offers a complete, integrated suite for odor management. The system provides a perfect integration of real-time odor impact estimation with management of odor complaints from neighboring residents. The simple to use software uses field-olfactometry and live weather data to produce real time odor plumes showing you exactly the location and amount of your odor emission. Complaints are automatically logged and compared to odor emissions for fast and efficient validation.

For detailed information on solutions of your interest we are gladly available:

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