

TOTAL ODOUR MANAGEMENT System

A Complete Solution of online Odour Monitoring, Dispersion Modeling and Complaints Management





In a human being, there is

- 1 gene to hear
- ❖ 3 genes to see
- 12 genes to taste
- Close to 1000 genes to smell
- ❖ A human nose can discern up to a trillion (1000 billiards) of different scents
- Human Nose Odor threshold for H2 S is 0.47 ppb



Odors are very distinct air contaminants as they are easily detected by the public and quickly generate nuisances. The factors playing a role in the determination of the annoyance of an odor are:

- Odor Concentration & Intensity
- Frequency of Odors
- Offensiveness
- Duration
- Location
- Ambient background Levels



Total Odour Management System

Scentroid offer a comprehensive and novel solution for Odor Monitoring and complaint management, including:

- Predictive and live modeling software
- complaint management module
- Odour Monitoring Station
- Automatic self-calibration system
- Data acquisition and transmission
- Meteorological stations

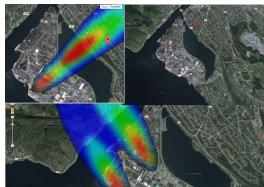




On-Line Modelling & Complaint Management

TOMS provides a comprehensive suite of **real-time dispersion modeling** and complaint management.

- Automatic notification for odour exceedance
- Online registration of complains
- Recalculation of odor concentration at specific location & time
- Daily, weekly, monthly & yearly Report
- Automatic complaint logging
- Plant data mapped automatically against the complaint.
- Complain risk forecast based on predictive modeling



Tuesday Jan 27	evening	<u>^</u>	0	SSE	(2)
Wednesday Jan 28	night	<i>a</i>	-1	SSE	©
Wednesday Jan 28	morning	4	4	s	@
Wednesday Jan 28	afternoon	111	5	s	(2)
Wednesday Jan 28	evening	101	4	s	@
Thursday Jan 29	night	٩	1	WNW	©

Odour Monitoring Station

TOMS dispersion modeling software is created based on an initial odour inventory and updated continuously based on:

- Scentroid SM100 field olfactometer, and/or
- GC based odour Monitoring Station, and
- Meteorological station

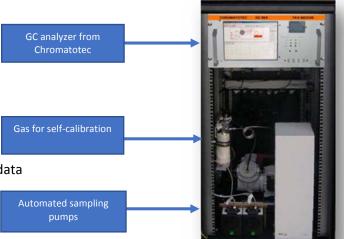


A truly unique solution

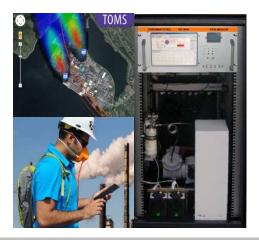
- Based on GC Analyzer and not chemical sensors
- According to ISO6326/2 & DIN51855/7
- Lower Detectable Limit < 1ppb for H2S and DMS</p>
- ❖ Interference Free



- No drift or change in sensitivity over time.
- Detector Lifetime : up to 10 years
- Air Conditioned Cabinet (if needed)
- Corrosion proof GRP/SS Cabinet
- Calibration system embedded as an option
- Portable Odour Monitoring Unit to cross validate data
- ❖ Field Olfactometer SM100i
- Integrated cross referencing in TOMS software



Advantage over Existing Technology



TOMS with GC Analyzers

- Based on GC Analyzer and not chemical sensors
- ✓ Detectable Limit < 1 ppb for H2S and DMS</p>
- ✓ Interference Free
- ✓ Zero drift
- ✓ Self-calibration
- Chemical to odour correlation is continuously improved with use based on SM100 readings
- √ 10 year sensor life



E-NOSE Technology

- X Based on a handful of electro chemical sensors
- X High detection limit (e.g. dozens of ppb of H2S)
- X Cross interference
- X Continuous sensor drift
- X Short sensor life (1 year typical)
- X Sensitive to temperature or humidity
- X Chemical to odour correlation based on a few samples
- X Significant loss of accuracy over time





Dystrybucja i serwis: ATUT Sp. z o.o.