

Odor Unit (OUE/m³)

+VOC

H₂SSO₂Total
Reduced
Sulfur

Mercaptans

Sulfides

Odor
Index

VigiEnose*

Online analysis and monitoring of odorous compounds
Sulfur & VOC monitoring

**Model: V10****On-line applications:**

Fence line
Odor control monitoring
Deodorisation process
Fugitive emission
Process control / CIP

Targetted compounds:

Standard version: H₂S / SO₂ / MM / EM / DMS / DMDS / DES / IPM / Total VOC
Upon request: TBM / NPM / 2BM / IBM / NBM / THT

Main markets:

WWTP / Refineries / Petrochemicals / Gas process sites / Rendering plants
Ambiant / Industrial air monitoring
Odor impact management

Standards:

ISO 19739:2004, DIN 51855/7
ASTM D 7493-08
Correlation with EN13 725 / ASTM 679-E04

* Analytical solution for vigiODOR platform

Chromatotec® is specialized in VOC, Sulfur and permanent gases analysis at trace and ultra trace levels (% , ppm, ppb, ppt).
Please visit our website for more details.

VigiEnose*

Online analysis and monitoring of odorous compounds
Sulfur & VOC monitoring



Description:

The VigiEnose 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.

Principle:

- Automatic sampling using a loop
- Loop injection by automatic valve on the column
- Isothermal gas chromatograph
- Detection of all compounds eluting from the column performed by Chromatotec's wet cell sulfur specific detector
- Signal provided by electrochemical reaction between the wet cell electrolyte and the sulfur compounds and by a PID dedicated for total VOC measurement.

Key points:

- Automatic calibration/validation of the data, with embedded permeation tube for sulfurs
- Continuous monitoring with automatic online sampling
- Analytical performances:
 - Specific and very sensitive to sulfur compounds
 - Results validation by automatic standard injection
 - Long term stability using detector installed in reservoir
- Extremely low maintenance
 - Very long life time detector, up to 10 years
 - Low gas consumption, can be reduced in option
 - More than 10 years data storage
 - No cylinders required thanks to internal calibration tube and gas generators
- Automatic control with process device
- Intelligent system with tunable and interactive alarm levels
- PID detector in addition to specific wet cell detector

- Powerful VISTACHROM Chromatotec® software:
 - Remote monitoring & injection control
 - Full traceability with on board archiving of results and chromatograms
 - QC Set up and control of threshold alarms
 - Data export by MODBUS / 4-20 mA / 0-10 V
 - Time stamp results

Options:

- Multiple stream selector (up to 16 streams with one analyser)
- Portable olfactometer or lab olfactometer (EN 13725)
- Modeling software with weather station for live odor/chemical impact
- Complaints management with platform for automatic integration of perception of neighborhood
- Explosion proof Exp box
 - ATEX Zone 2: Ex II 3G Ex pz IIC T4
 - CSA international Class 1 Div 2, group B,C & D
- Calculation modules (Average / Statistics / Odor index and more)
- Automatic data transfert through: Module for 4 outputs 4-20mA / Modbus / MGS1
- Nitrogen or air generator
- 24 V DC power supply
- Electric selection valve to reduce air consumption
- Wall mounted box

Technical Specifications:

Total VOC with PID detector

Reduced sulfur compounds analysis:

- Speciation and/or Total Reduced Sulfur: sum (TRS) and H₂S, SO₂, DMS, MM, EM compounds

Detection limits*:

- ppb for chemical
- 50 UO E/m³ (limit of the olfactometer)
- *more sensitive analyzers available upon request with special application

Range (adjustable depending on application):

- 0/10 or 0/100 or 0/1000 (ppb or ppm)
- Calculation TRS, mgS/m³, UO e/m³, T VOC

Relative Standard Deviation:

- RSD < 3 % on concentration over 48H
- RSD < 0.5% on retention time over 48H

Cycle Time for the following different analyses:

Ex. :

- | | |
|---|-------|
| • H ₂ S/TS | 120s |
| • H ₂ S, SO ₂ , MM, EM, DMS, DMDs, DES, IPM | 600s |
| • H ₂ S, SO ₂ , MM, EM, DMS, DMDs, DES, IPM
TBM, NPM, 2BM, IBM, NBM, MES and THT | 1200s |

Supervisor:

- Embedded computer Windows® based with LCD display
- 32 GB of Hardware storage on SSD memory

Communication:

- Ethernet, remote control

Gas supply:

- Carrier: Dry air or N₂ (3 bars): ≤ 4 ml / min.
- CALIB: in continuous ~ 50 ml / min.
- CALIB during validation ~ 250ml/min for M52 configuration
- Pneumatic valve 90ml/commutation

Power supply:

- Main: 230V 60Hz or 115V / 50Hz

Electrical consumption:

- 150 VA

Dimensions and weights:

Rack: 19" (5U)	Wall mounted box :
• Height: 222 mm	• Height: 222 mm
• Width: 482mm	• Width: 482mm
• Depth: 660 mm	• Depth: 660 mm
• Net weight: 22 Kg	• Net weight: 22 Kg

To order:

VigiEnose

Model:

V10022

Chromatotec® is continuously improving its products, therefore these specifications are subject to change without notice

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