

ONLINE ANALYTICAL SOLUTIONS EXPERTS

GAS ANALYZER GC 866

H25

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Total Reduced Sulfur

Odor Index

DMS

MDS

Me-SH

Et-SH

TRSMEDOR®

ppm (M54) or **ppb** (M52) Online analysis and monitoring of odorous sulfur compounds





Model: M52022 (rack version)

Model: M52022 (wall mounted version)

On-line applications:

Fence line Fermentation process Deodorization process Fugitive emission

Targeted compounds:

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

Main markets:

WWTP / Refineries / Petrochemicals / Gas process sites Ambiant / Industrial air monitoring Odor impact management TRS measurement

SCAN or CLICK ME



Standards:

ISO 19739:2004, DIN 51855/7 ASTM D7493-22 & D7165-22

Certifications:

GOST, ATEX, IECEx, CSA, CSA international

TEY SOLUTION

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.

Updated: September 2023

TRSMEDOR®

ppm (M54) or **ppb** (M52)





Description:

The TRSMEDOR® is an autoGC-ED (MEDOR® Electrochemical wet cell Detector) for the analysis and monitoring of sulfur compounds in air: H_oS, Mercaptans, Sulfides,

Two versions exist according to levels of concentration expected:

- The TRSMEDOR® ppm
- The TRSMEDOR® ppb

Principle:

- · Automatic sampling using a loop linked to sampling pump
- · Automatic loop injection on metallic capillary column
- · Isothermal gas chromatograph
- · Detection of all compounds eluting from the column performed by MEDOR® Detector: Electrochemical wet cell Detector which is SSD Sulfur Specific Detector.
- Signal provided by reaction between the wet cell electrolyte and the sulfur compounds

Key points:

- Automatic calibration/validation of the data, with embedded permeation tube
- · Continuous monitoring with automatic online sampling
- Analytical performances:
 - · Specific, linear 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 with electrolyte, 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
- 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 analyzer)
- · Modeling software with weather station for live odor/chemical impact
- Explosion proof version Exp or Exd for ATEX, IECEx zone 1 and 2 and also for CSA C1D2
- · Calculation modules (Average / Statistics / Odor unit OU e/m3 and
- Automatic data transfer through: Module for 4 outputs 4-20mA / Modbus RTU or TCP IP / MGS1
- · Nitrogen or air generator
- 24 V DC power supply
- · Electric selection valve to reduce air consumption
- Wall mounted box XXX934

Technical Specifications:

Reduced sulfur compounds analysis:

· Speciation and Total Reduced Sulfur by sum (TRS): H2S, SO2, DMS, MM, DES, DMDS, EM compounds

Detection limits* for H2S, SO2, DMS, MM, EM:

TRSMEDOR® ppm LDL ≤ 0.1 ppm

TRSMEDOR® ppb ≤ 1 ppb

*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: Odor Index, Total Sulfur, Total mercaptans

Relative Standard Deviation:

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

Cycle Time for the following different analyses:

- · H2S, SO2, MM, EM, DMS, DMDS, DES
- With special application following compounds can be added: IPM, TBM, NPM, 2BM, IBM, NBM, MES, THT and THT 1200s

Supervisor:

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

<u>Linearity:</u>

• > 0.995 for all compounds

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
- In case of power loss, the instrument will restart automatically

Electrical consumption:

• 150 VA

Dimensions and weights:

Rack: 19" (5U)

· Height: 222 mm

Width: 482mm

• Depth: 660 mm · Net weight: 22 Kg Wall mounted box:

· Height: 800 mm

· Width: 600mm

• Depth: 300 mm

· Net weight: 40 Kg

To order:

TRSMEDOR® ppb inbuilt computer 5U with CALIB TRSMEDOR® ppm inbuilt computer 5U with CALIB

Model: M52022 M54022

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

To contact us: sales@chromatotec.com

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