TSP M54 / M52





GAS ANALYZER GC 866



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TRS**MEDOR**®

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

Online analysis and monitoring of odorous sulfur

compounds

Description:

The TRSMEDOR® is an autoGC-ED (MEDOR® Electrochemical wet cell Detector) for the analysis and monitoring of sulfur compounds in air: H_aS, 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 more)
- 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 •
- · Automatic tank filling
- · Sealproof detector

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 \leq 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 600s 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

Linearity:

• > 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

CLICK HERE FOR ADDITIONAL DIMENSIONS DETAILS

To order:

Model: TRSMEDOR[®] ppb inbuilt computer 5U with CALIB M52022 TRSMEDOR[®] ppm inbuilt computer 5U with CALIB M54022

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

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