## TSP M51 / M52

Total Reduced

Sulfur

Udor Index

DW2



#### **EXPERTS** IN GAS **ANALYSIS**

GAS ANALYZER GC 866

# TRS**MEDOR**®

**ppm** (M51) or **ppb** (M52) Online analysis and monitoring of odorous sulfur compounds



Model: M52022

**On-line applications:** 

Fence line Fermentation process Deodorisation process Fugitive emission

**Targetted compounds:** 

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

#### Main markets:

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

**Standards:** 

ISO 19739:2004, DIN 51855/7 ASTM D 7493-08

**Certification:** 

GOST



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DMDS Me-SH Et-SH

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

Updated: January 2015

## WWW.CHROMATOTEC.COM

## TRS**MEDOR**®

**ppm** (M51) or **ppb** (M52)

## Online analysis and monitoring of odorous sulfur

## compounds

#### **Description:**

The TRSMEDOR® is an industrial gas chromatograph for the analysis and monitoring of sulfur compounds in air: H<sub>2</sub>S, Mercaptans, Sulfides. Two versions exist according to levels of concentration expected:

- The TRSMEDOR® ppm
- The TRSMEDOR® ppb

#### **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

#### Key points:

- · Automatic calibration/validation of the data, with embeded permeation tube
- · 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
- · Intelligents system with tunable and interactive alarm levels
- Powerful VISTACHROM Chromatotec<sup>®</sup> 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)
- · Modeling software with weather station for live odor/chemical impact
- 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



### **Technical Specifications:**

#### Reduced sulfur compounds analysis:

Speciation and/or Total Reduced Sulfur: sum (TRS)

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

#### TRSMEDOR<sup>®</sup> ppm LDL ≤ 0.1 ppm

#### TRSMEDOR<sup>®</sup> 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)
- Calcultation TRS, mgS/m3 ...

#### Relative Standard Deviation:

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

#### Cycle Time for the following different analyses:

- H2S/TS
  - 120s · H2S, SO2, MM, EM, DMS, DMDS, DES, IPM 600s
  - 1200s · H2S, SO2, MM, EM, DMS, DMDS, DES, IPM
- TBM, NPM, 2BM, IBM, NBM, MES and THT

#### Supervisor:

- · Embeded 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)
  - Height: 222 mm
  - Width: 482mm
  - Depth: 660 mm
  - Net weight: 22 Kg

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### To order:

TRSMEDOR<sup>®</sup> ppb inbuilt computer 5U with CALIB TRSMEDOR<sup>®</sup> ppm inbuilt computer 5U with CALIB

Model: M52022 M51022

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



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