TSP M51 / M52

Total Reduced

Sulfur

Odor Index

DW2

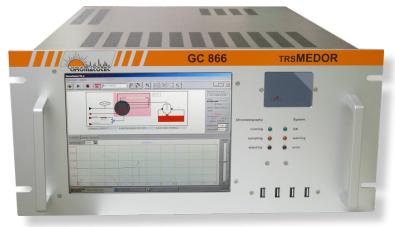


EXPERTS IN GAS **ANALYSIS**

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:

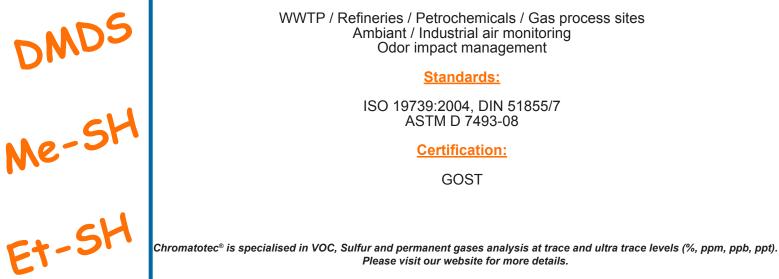
WWTP / Refineries / Petrochemicals / Gas process sites Ambiant / Industrial air monitoring Odor impact management

Standards:

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

Certification:

GOST



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_2S , 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 embedde 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[®] 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[®] 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)
- Calcultation TRS, mgS/m3 ...

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/TS
 - H2S, SO2, MM, EM, DMS, DMDS, DES, IPM
 600s
 - H2S, SO2, MM, EM, DMS, DMDS, DES, IPM
 1200s
- 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

<u>To order:</u>

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

Model: M52022 M51022

120s

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



NORTH AMERICA

CHROMATOTEC Inc. 18333 Egret Bay Blvd, Suite 270, Houston TX 77058 - USA Phone: +1 (281) 335 4944 Fax: +1 (281) 335 4943

To contact us: info@chromatotec.com

EUROPE AIRMOTEC AG SAS 15 rue d'Artiguelongue 33240 Saint-Antoine - FRANCE Phone: +33 (0) 557 940 626 Fax: +33 (0) 557 940 620

ASIA CHROMATOTEC Trading (Beijing) Co., Ltd. Room 1806, Building 1, Wanda Plaza, No.93, Jianguo Avenue, Chaoyang District, Beijing 100022 - CHINA Phone : +86 (0) 105 960 3283

WWW.CHROMATOTEC.COM