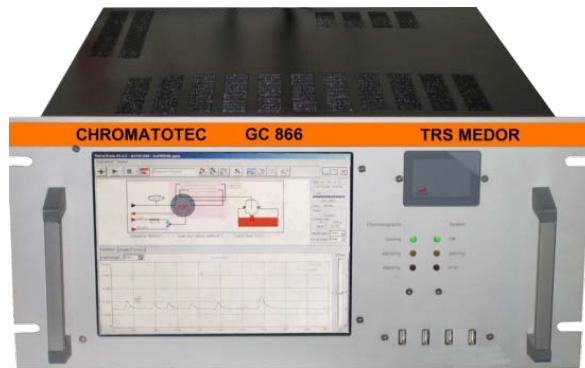


Updated September 2010

TRS MEDOR® M52

Sulfur compounds analyzer
Ambient air monitoring at ppb level
ISO 6326/2 norm and DIN 51855/7.



Beverage & Food Industry

Environment

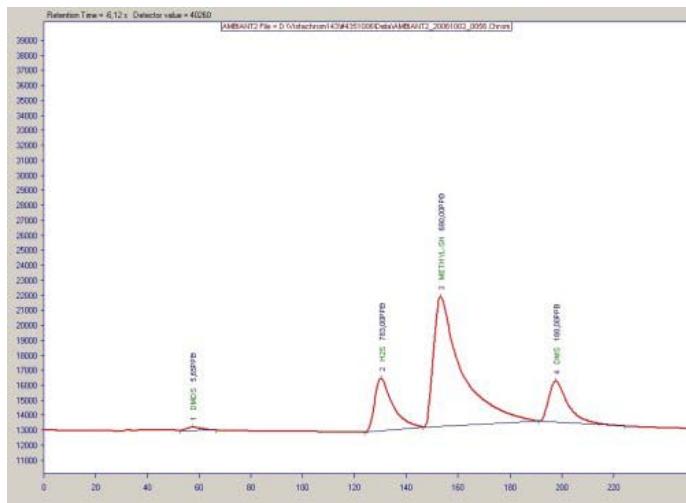
Toxicity:ppm

Fermentation control
CO₂ quality at brewery

H₂S/SO₂/MM
Odour control: ppb
Calculation for odour

H₂S/MM
Methyl-Mercaptan (MM)

DMDS
odour
H₂S
Me-SH (MM)
DMS
odour calculation
Total Reduced Sulfur (TRS)
EtSH



Chromatotec is specialised in continuous monitoring of ozone precursors (VOC), sulfur compounds and permanent gases (from ppt to ppm)

Feel free to visit our web site for more details:
www.chromatotec.com

Printed Matter Reference: TSP-M52-010E-trsMEDOR-100908

TRS MEDOR®

Ambient air PPB reduced sulfur compounds analyzer

- Principle :

TRS MEDOR is an **industrial and isothermal gas chromatograph** dedicated to sulfur compounds analysis (H_2S , SO_2 , Mercaptans and Sulfides) present in different gas matrices.

Only air or nitrogen is used as carrier gas and for dilution of the permeation tube.

- ⇒ A specific wet cell allows the detection of sulfur species
- ⇒ The detection is made by a gas-liquid reaction with alteration of the detector
- ⇒ The cell life-time can be more than 10 years
- ⇒ Loop injection 0.25 ml in standard

Automatic data validation (results and odor) with internal calibration using a permeation tube (included as standard)

The **Vistachrom software** enables the user to visualize and store data on a computer. Furthermore it provides user friendly utilities to recalculate, calibrate, export data and to re-configure the measurement. The **airmoTREND** software allows the calculation of retention time, area, mass or concentration profiles.

- Options :

- MODBUS or MGS1 communication protocol
- Analog output 4-20 mA or 0-10 V.
- 24 V power supply for transportable analyzers
- Multiple stream selector (2 to 6).
- **airmopureXXX031 or nitroxychrom XXX913**
- Cabinet : contact us



- Technical specifications products :

Reduced sulfur compounds analysis

Speciation and/or Total Reduced Sulfur: TRS.

Detection limits: in PPB (available in PPM)

- H_2S : 1 ppb ($1.417 \mu\text{g}/\text{m}^3$) : loop=0.5ml
- DMS : 0.5 ppb ($1 \mu\text{g}/\text{m}^3$) : loop=0.5ml
- SO_2 : 1 ppb in air

Detection range: $H_2S/SO_2/Mercaptans$

Programmable : 0/10 ppb or 0/100 ppb or 0/1 000 ppb

Calculation of odor, TRS, mgS/m^3 ...

Relative Standard Deviation

RSD < 3% on concentration over 48H.

RSD < 0.6% on retention time over 48H.

Results

- Hardware storage
- MODBUS communication protocol (optional)
- 4-20mA (optional)

Cycle Time

- | | |
|--------------------------------------|------|
| - $H_2S/\text{total S}$ | 120s |
| - H_2S , EM, MM, DMS, DMDS, SO_2 | 600s |
| - Total reduced sulfur (TRS) | 600s |

Gas supply

Carrier: **Dry air** or N_2 (3 bars): 5 ml/min.

CALIB: in continuous 50 ml/min.

CALIB during validation ~ 450ml/min

Power supply

- Main (230V / 115V 50/60Hz)
- 24V battery (optional)

Electrical consumption

150 VA

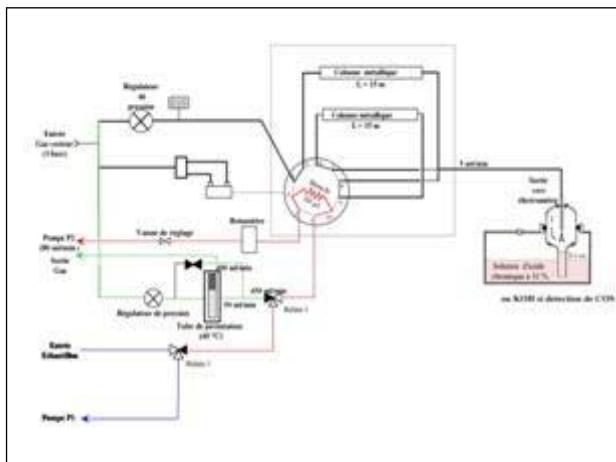
Dimension

- Rack 482 mm (19")
- Height: 222 mm, Depth 600 mm (5U)

Weight

20 kg

**trsMEDOR pneumatic drawing:
odor in ambient air.**



AMERICA
CHROMATOTEC Inc.
 1833 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 SA
 15 rue d'Artiguelongue
 F-33240 SAINT-ANTOINE (BORDEAUX)
 Tel : +33 (0)557 940 626
 Fax : +33 (0)557 940 620

Due to Chromatotec continuing program on product improvements, specifications are subject to change without notice