



Total Reduced
Sulphur



Odour calculation

TRS MEDOR®

Automated continuous analysis of odorous sulphur compounds
ISO 6326/2 norm and DIN 51855/7.



Model: M52022

Analysis & Monitoring of sulphur emissions at ppb levels

Applications of the TRS Medor®

Environmental:

Ambient air monitoring
Odour monitoring & control (Waste water treatment)
Sulphur emission monitoring (stack emissions)

Process:

CO₂ Quality control
Fermentation process monitoring

Analysis of H₂S / SO₂ / MM / EM / DMS / DES / DMDS in ambient air
(outdoor)

In option : Propyl-SH & Buthyl-SH & THT in refinery or
near natural gas area

For SO₂ and all sulphur compounds : low detection limit ≤ 1 ppb

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.

TRSMEDOR®

Ambient air ppb reduced sulfur compounds analyzer

Description:

The TRS MEDOR® is an automatic and isothermal gas chromatograph dedicated to sulfur compounds analysis (H₂S, mercaptans and sulphides) in different matrices.

Two versions exist: the TRS MEDOR® ppm which measures at ppm levels and the TRS MEDOR® ppb which measures at ppb levels.

Principle:

- Loop injection by automatic valve
- Detection is made by a gas-liquid reaction
- Sulfur specific detector - no interferences
- The detector life is in excess of 10 years

Features:

- Online, continuous sampling
- No interference from other compounds
- Low maintenance instrument – detector life may be up to 10 years
- Automatic Validation of results by Internal Permeation Tube
- Modifiable threshold alarms – High / Low alarm for odorising processes

VISTACHROM® software

Chromatotec® developed software system enables:

- Remote monitoring & injection control
- Full traceability with on board archiving of results and QC Set up and control of threshold alarms
- Export of data MODBUS / MGS1 / 4-20mA / 0-10V

Options:

- 24 V power: for transportable analysis
- Internal Permeation Tube system (CALIB system)
- Multiple stream selector (analysis of 2 to 6 streams with one analyser)
- Calculation Module (Average)
- Explosion proof Exp box - Ex Specification Class 1 Div 2, group C&D

Product Technical Specifications:

Reduced sulfur compounds analysis:

- Speciation and/or Total Reduced Sulfur: TRS

Detection limits: in ppb (available in ppm):

- H₂S : 1 ppb (1.417 µg/m³)
- DMS : 0.5 ppb (1 ppb=2.584 µg/m³)

Detection range: H₂S/SO₂/Mercaptans:

- Programmable : 0/ 10 ppb or 0/ 100 ppb or 0/ 1000 ppb
- Calculation of odor, TRS, mgS/m³ ...

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:

- H₂S/total S 120s
- H₂S, MM, DMS, DMDS 300s
- Total reduced sulfur (TRS) 300s

Gas supply:

- Carrier: Dry air or N₂ (3 bars): 5 ml / min.
- CALIB: in continuous 50 ml / min.
- CALIB during validation ~ 450ml/min

Power supply:

- Main: 230V 60Hz or 115V / 50 Hz
- Power: 24V (optional)

Electrical consumption:

- 150 VA

Dimensions and weights:

- Rack: 19" (5U)
- Height: 222 mm
- Width: 482mm
- Depth: 600 mm
- Net weight: 22 Kgs

For ordering:

TRSMEDOR® ppb - inbuilt computer 5U
Calibration included

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