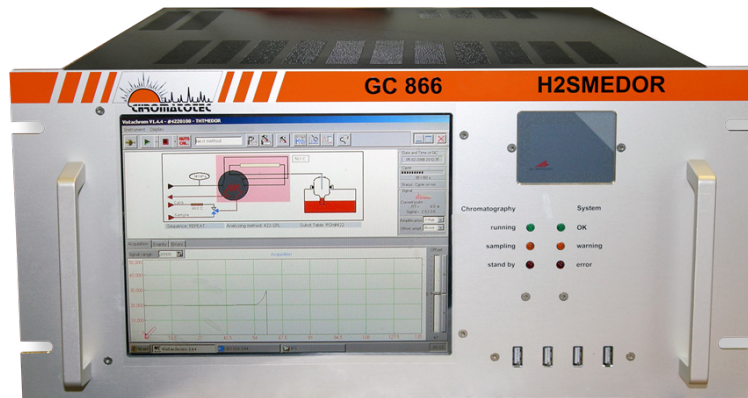


# H<sub>2</sub>S MEDOR<sup>®</sup>

Analyser for continuous on-line monitoring of Hydrogen Sulphide



Model: M51000

H<sub>2</sub>S

## H<sub>2</sub>S Medor<sup>®</sup> applications:

### Process Gases

H<sub>2</sub>S level monitoring  
Verification of H<sub>2</sub>S removal processes  
Catalyser protection

### Environmental

Monitoring of H<sub>2</sub>S emissions  
Stack monitoring  
Ambient air monitoring

### Options:

Total Sulphur analysis  
Ex rated enclosure for hazardous areas  
Multiple stream analysis with one instrument  
Automatic validation and transfer of results

*ASTM D7493-08 : Standard Test Method for Online Measurement of Sulfur Compounds in Natural Gas and Gaseous Fuels by Gas Chromatograph and Electrochemical Detection.*



ISO 6326/2 norm, DIN 51855/7 , ASTM D7493-08

Chromatotec<sup>®</sup> 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.

# H<sub>2</sub>S MEDOR®



Analyser for continuous on-line monitoring of Hydrogen Sulphide

## Description:

H<sub>2</sub>S Medor® is an online Gas Chromatograph dedicated to the analysis of H<sub>2</sub>S present in different matrices

Two versions of the instrument exist:

- H<sub>2</sub>S Medor® ppm (measuring at ppm levels)
- H<sub>2</sub>S Medor® ppb (measuring at ppb levels)

## Principle:

- Internal pressure & temperature monitoring
- Sample loop injection is made by automatic valve
- H<sub>2</sub>S Medor® uses a sulphur specific electrochemical cell for the detection of H<sub>2</sub>S

## 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 deodorising 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:

### Compounds Analysed:

- H<sub>2</sub>S Hydrogen Sulphide
- Option for Total Sulphur Analysis

### Detection Limit:

- ppm Model – 1ppm H<sub>2</sub>S
- ppb Model – 5ppb H<sub>2</sub>S

### Detection Range:

- ppm model - 1 to 1000ppm
- ppb model - 5 to 1000ppb
- (Ranges adjustable depending on Application)

### Relative Standard Deviation:

- RSD < 2 % on concentration over 48H.
- RSD < 0.6% on retention time over 48H.

### Cycle Time:

- H<sub>2</sub>S result in 60seconds
- H<sub>2</sub>S+Total Sulphur Result in 120 seconds

### Storage / Transfer of Results:

- 40GB of Hardware storage
- MODBUS or MGS1 communication protocol
- 4-20mA / 0-10V
- RS232 / RS 485

### Gas supply:

- Carrier Gas: Dry Air or N<sub>2</sub>: 5ml/min.
- Internal Calibration: 50 ml/min (if selected)
- Sample inlet 1 bar (10 l/hour)

### Power supply:

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

### Electrical consumption:

- Average: 150 VA

### Dimensions and weight:

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

## For ordering:

H<sub>2</sub>S MEDOR® - inbuilt computer - 5U

## Model:

M51022

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.

To contact us: [info@chromatotec.com](mailto:info@chromatotec.com)



### NORTH AMERICA

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

### 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