



# IMAC



TSP C51

GAS ANALYZER GC 866



Mercaptans

TOTAL Reduced  
Sulfur (TRS))



## Chroma S

Online monitoring & analysis of  
Sulphur compounds by GC/FPD



Model: C51022

Sulphur Specific Analyser (from ppb to ppm)

- $\text{SO}_2$  /  $\text{CS}_2$  /  $\text{H}_2\text{S}$  /  $\text{COS}^*$
- Mercaptans (Methyl-SH / Ethyl-SH / Isopropyl-SH / Terbutyl -SH...)
- sulphides (DMS / DMDS / DES...)
- \* (COS optional)

Chroma S applications: Odour Control & monitoring

- Stack Emission Monitoring
- CEM - Continuous Emission monitoring
- Ambient Air Monitoring
- Waste Water Treatment Plant
- Gas odourisation & deodorisation
- Impurities in Pure Gas ( $\text{CO}_2$ ,  $\text{CH}_4$ ...)

*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.*



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## Chroma S

## Online monitoring & analysis of Sulphur compounds by GC/FPD

### Description:

Chroma S is a fully automatic isothermal gas Chromatograph for the analysis & monitoring of sulphur compounds.

### Principle:

- Continuous, uninterrupted sampling
- Sample is injected into column oven for separation
- Controlled oven selects optimum temperature based on application
- Detection achieved by a sulphur specific photometric double flame detector

### Features:

- The double flame ensures no quenching occurs
- Automatic linearization of compounds
- Identification of compounds is based on their retention time (Elution from the column)
- Automatic data validation as standard with the internal permeation tube

### VISTACHROM® software

Chromatotec™ developed software system allows

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

### Options:

- Automatic data transfer through:
  - Modbus or MSG1 communication protocol
  - Analog 4-20mA or 0-10V output
- Hydrogen Generator
- Zero Air Generator
- Multiple stream analysis with Multiplexer
- Dilution system
- Heated lines

### Technical specifications:

#### Compounds analysed:

Specific sulphur compounds analysis

H<sub>2</sub>S, Me-SH, Et-SH, Isopropyl-SH, Npropyl-SH, 2-butyl-SH, Terbutyl-SH, DMS, DES, DMDS, COS, CS<sub>2</sub> ...

#### Detection Limit:

- 4 ppb double Sulphur Compounds (DMDS / CS<sub>2</sub> etc..)
- 7 ppb single Sulphur Compounds (H<sub>2</sub>S DMS etc..)

#### Detection Range: (selectable ppm / ppb)

- 4 ppb to 5 ppm (Low Range)
- 100 ppb to 100 ppm (High Range)

#### Relative Standard Deviation:

- RSD < 5% on concentration over 24hrs
- RSD < 1% on Retention Time over 24hrs

#### Data Management:

- Full storage of chromatograms & results
- All analyses date & time stamped individually

#### Cycle Times:

- Cycle times are dependant on application
- Example: \* H<sub>2</sub>S plus COS - 200 secs
- \* Total Sulphur - 600 secs

#### Gas Supply:

- Carrier Gas - Air or N<sub>2</sub> 3 bar (5mL/min) 1/8"
- Sample Inlet - 1 Bar or ambient pressure (airmopump)
- Detector - H<sub>2</sub> at 2 Bar (70 ml/min) 1/8"
- Air at 3 bar (80 ml/min) 1/8"

#### Power Supply:

- Main: (230V / 50Hz) or (115V / 60Hz)
- Battery: 24V (as option)
- Consumption: 250W (+50W for computer)

#### Dimensions and Weight:

- Rack: 482mm (19"), Height: 177,8 mm (4U) or 222 mm (5U), Depth: 600mm
- Weight: 22 kg (With integrated computer)

#### For ordering:

- Chroma S
- Chroma S - COS (calib included)
- integrated computer: XXX022
- internal calibration: XXX931

#### Model:

C51000  
C51000-COS  
XXX022  
XXX031

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