



**TSP C51** 

GAS ANALYZER GC 866

# H25

50<sub>2</sub>

C52

Mercaptans

TOTAL Reduced Sulfur (TRS))



# Chroma S

Online monitoring & analysis of Sulphur compounds by GC/FPD



Model: C51022

# Sulphur Specifc Analyser (from ppb to ppm)

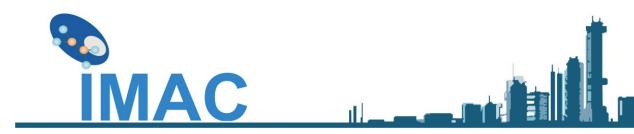
- SO, / CS, / H,S / COS\*
- Mercaptans (Methyl-SH / Ethyl-SH / Isopropyl-SH / Terbutyl -SH...)
- sulphides (DMS / DMDS / DES...)
  - \* (COS optional)

### Chroma S applications: Odour Control & monitoring

- Stack Emission Monitoring
- CEM Continuous Emission monitoring
- Ambient Air Monitoring
- · Waste Water Treatment Plant
- · Gas odorisation & deodorisation
- Impurities in Pure Gas (CO<sub>2</sub>, CH<sub>4</sub>...)

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.



# 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
- · Detection achieved by a sulphur specifc photometric double fame detector

#### **Features:**

- The double fame 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:

Specifc 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, ...

#### **Detection Limit:**

- 4 ppb double Sulphur Compounds (DMDS / CS,
- 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</li>
- 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 (5mlLmin) 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 mmm (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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# IMAC byba

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