

EXPERTS IN GAS ANALYSIS

GAS ANALYZER GC 866

Chroma S - COS

A specific sulphur compounds analyser



- H₂S / COS / SO₂ / MM / EM / DMS / DMDS / DES / CS₂
- All mercaptan species
- · All sulphide species

Chroma S® applications:

Process Quality:

Odorant analysis & monitoring
DeSulfurisation / Deodorisation processes
Catalyser protection
Sulphur in Natural Gas
Sulphur in Pure CO₂

Air monitoring:

Emission analysis & monitoring Indoor & Outdoor analysis Transportable field based analysis

TOTAL Reduced Sulfur (TRS))

RSH

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-COS



A specific sulphur compounds analyser

Description:

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

Principle:

The gas sample comes through the sampling loop. Range is linked to the size loop and electronic amplification. Then the sample is injected into the column for separation. A controlled temperature oven allows selection the ideal temperature according to the application. The temperature setting is isothermal at 35°c.

Features:

Detection is achieved by a photometric detector double flame. No quenching with the double flame

We have linearization by compounds

The identification of the compounds is based on their Retention Time = RT = elution from the column

Automatic data validation with internal calibration using a DMS permeation tube.

VISTACHROM ® software:

Sequence with methods for: sample(s) / zero air / CALIB The VISTACHROM software enables the user to visualize and store data on a computer. Computer = XXX015 or 022 is

It provide comfortable utilities to recalculate, calibrate and export data and to set-up measurement. Software allows the calculation of retention time, area, mass or concentration profiles/TREND.

Options:

- · A MODBUS / communication protocol.
- One module 4x analog output 4-20 mA or 0-10 V.
- · Hydrogen and Zero Air Generator .
- · Multiple stream selector (2 to 10).
- Nitrogen generator XXX912
- · Dilution system
- · Heated line
- · Valve to control cylinder

Technical specifications:

Total Sulphur compounds analysis:

- H₂S, mercaptans, sulfides, COS, SO₂, CS₂
- CS₂ is not analysed by the Medor range
- Speciation and/or TOTAL Sulfur analysis

Detection limits with loop = 500µl and amplification 2

- 7 ppb for H₂S/SO₂/ MM/EM/DMS/DES/COS
- 4 ppb for DMDS & CS₂

Detection range: ppm or ppb: amplification 1&2

- 0,01 to 10 mg/m³ or 0 to 600 mg/m³
- % / ppm / ppb level depends on compounds for ex $H_2S = 0.01$ to 10 mg/m³ = 7 ppb to 7ppm

Relative Standard Deviation:

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

- Hardware storage in XX022 or XXX015
- MODBUS communication protocol (optional)
- 4-20mA one module for 4 outputs (optional)

Data Management:

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

Cycle Times:

· 10 mins in standard

Gas Supply: input 1/8" Swagelok

- · Sample inlet: for 80 ml / min and 1 atmosphere (20°C)
- · Cylinder Calibration inlet at 80 ml/min
- H_a at 2 bars for 70 ml/min
- · Air for detector at 3 bars for 80 ml/min
- · Air for carrier gas at 3 bars for 5 ml/min
- · For calib, air at 50 ml/min in continue and during calibration one cycle by day at 300 ml/min.

Power Supply:

Main: 230V / 50Hz or 115 / 60Hz

Electrical consumption:

Min: 100 VA

Peak: 200 VA

Dimensions:

Rack: 19" - (4U)

· Height: 180mm

• Width: 482mm

Depth: 600 mm

· Net weight: 17 kg

For ordering:

Model:

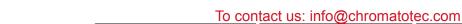
 Chroma S-COS 4U - Needs a 5U supervisor (ref. XXX015)

C51000-COS

Chroma S-COS 5U

C51022-COS

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