Sulfides



ONLINE ANALYTICAL SOLUTIONS EXPERTS

GAS ANALYZER GC 866

airmo S

Online monitoring of Sulfur compounds by auto GC/FPD Sulfur Specific Detector (from ppt to ppb)



Model: C52022-Trap (5U)

Targeted compounds:

Standard Version: CS2
Mercaptans (Methyl-SH / Ethyl-SH...)
Sulfides (DMS / DMDS / DES...)

Upon Request: Isopropyl-SH / Terbutyl -SH

Main Markets:

Ambient Air Monitoring Waste Water Treatment Plant Gas odorisation & deodorisation Impurities in Pure Gas (CO2, CH4...)

SCAN or CLICK ME



US EPA-Method 16b

Standards:



*with loop option

Chromatotec® is specialized in VOC, Sulfur and permanent gases analysis at trace and ultra trace levels (ppm, ppb, ppt).

Please visit our website for more details.

Updated: September 2025

Mercaptans

Total Mercaptans

airmo S

Online monitoring of Sulfur compounds by auto GC/FPD



Description:

airmo S is a fully automatic isothermal gas Chromatograph for the analysis & monitoring of sulfur compounds with Sulfur Specific Detector. This solution is specific for application where low sensitivity on sulfurs must be reached. This auto GC uses a valve with 1 sample trap, and metallic capillary columns.

Principle:

- Trap temperature at +5° C and loop in option
- · All the pneumatic tubes are inert to Sulphur compounds
- · High efficiency dryer for sample water removal
- · Continuous sampling
- · Sample is injected into column oven for separation
- · Controlled oven selects optimum temperature based on applica-
- Detection achieved by a sulfur specific dual flame photometric detector (FPD)
- · Calibration with internal permeation tube

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 internal permeation tube (DMS)

VISTACHROM® software:

The software developed by Chromatotec® 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
- Windows 10

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
- N2 Generator
- · Dual mode chromaS/airmoS

Product technical specifications:

Compounds analysed:

Specific sulfur compounds analysis with trap (and loop in option): Me-SH, Et-SH, DMS, DES, DMDS, CS2 ...

Options: n-propyl-SH, 2-butyl-SH, Isopropyl-SH, Terbutyl-SH Only with loop in option: H₂S, SO₂, COS

Detection limits with trap:

- 0,1 ppb double Sulfur Compounds like DMDS, CS2 etc...
- 0,2 ppb single Sulfur Compounds (MM, DMS etc..)

Detection limits with loop in option:

with loop = 250 µl and amplification 2

- 14 ppb for H2S/SO2/ MM/EM/DMS/DES/COS
- 8 ppb for DMDS & CS2

Detection range with trap (selectable ppm / ppb)

- 0,2 to 10 ppb (amplification 2)
- 1 to 40 ppb (amplification 1)

Detection range with loop in option (selectable ppm / ppb)

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 H2S = 0,01 to 10 mg/m3 = 7 ppb to 7 ppm

Relative Standard Deviation:

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

Supervisor:

- · Full result storage (data and chromatogram)
- · Embedded computer Windows® based with LCD display
- · 128 GB of Hardware storage on SSD memory
- · 4 USB Connecting Port
- · Two RS-232 ports
- · Display: 10" TFT Color LCD

- 10 min in airmoS mode or chromaS mode
- 30 min in dual mode (option): 10 min chromaS + 20 min airmoS

Gas Supply:

- Carrier Gas - N2 recommanded / Air possible 3 bar (5ml/min) 1/8"
- Sample Inlet -1 Bar or ambient pressure (airmopump)
- Sampling dryer: 150-200 ml/min of dry air Detector - H2 at 2 Bar (70 ml/min) 1/8"
- Air at 3 bar (80 ml/min) 1/8"
- · Pneumatic valve 90ml/commutation

Operation Temperature:

• Room with air conditioning: 10 to 25°c

Power Supply:

• Main: (230V / 50Hz) or (115V / 60Hz)

Electrical consumption:

• 250W (+50W for computer)

Dimensions and Weight:

- · Rack: 482 mm (19")
- · Height: 177,8 mm (4U) or 222 mmm (5U)
- Depth: 660mm
- Weight: 22 kg (With integrated computer)

CLICK HERE FOR ADDITIONAL DIMENSIONS DETAILS

To order: airmo S (4U) airmo S (5U)

Model: C52000-Trap C52022-Trap

Chromatotec® is continuously improving its products, therefore these specifications are subject to change without notice

To contact us: sales@chromatotec.com

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