ONLINE GAS AND LIQUID ANALYZER EXPERTS

GAS ANALYZER GC 866

Benzo(a)pyrene

Naphthalene

Styrene

BTEX

CCL4

Tri-methylbenzene

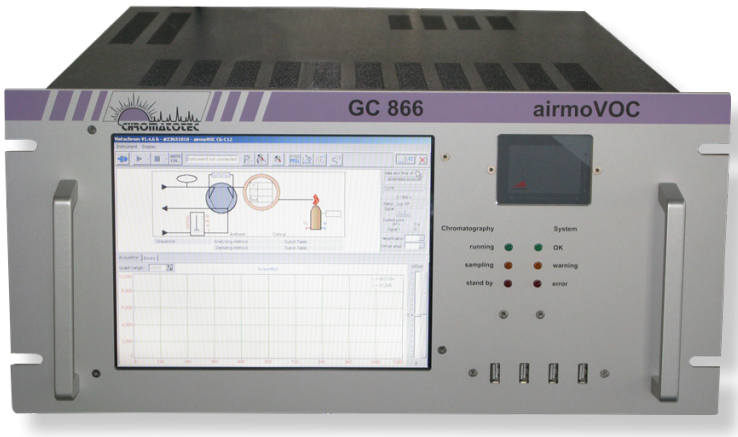
N-Eicosane

FLUORENE

Gaseous PAHs

airmoVOC C6-C20

BTEX included
Analysis of up to 67 compounds from
C6 to more than C20: VOCs, SVOCs, halogen compounds (TO14), PAMS and PAHs.



Model: A22022

Certified
EN 14662-3
EN 15267-1
EN 15267-2
2015

Environment:

Urban/Non urban area pollution control
Outdoor/Indoor measurements
BTEX / PAMS / CE analysis
Plant / process emissions
Tropical forest

SCAN or CLICK ME

Process:

Industrial Hygiene
Fenceline monitoring

Other applications:

Wastewater plant, Headspace or Purge and trap (method 502-2 or 524), Ambiant air control (PAMS and TO14)

24 7 365 TURN KEY SOLUTION

Selected by US EPA

1996

2006

2010-C212
2010

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.

Updated: September 2023

airmoVOC C6-C20

BTEX included

Analysis of up to 67 compounds from
C6 to C20:VOCs, SVOCs, halogen compounds (TO14), PAMS and PAHs.

Description:

The airmoVOC C6-C20 is based on airmoVOC Mcerts certified and USEPA selected. It is a gas chromatograph for analysis and monitoring of trace and ultra trace amounts of VOCs from PAMS, TO14, TO15, and SVOCs like linear alcanes up to N-Pentacosane or gaseous PAHs from Naphthalene to Benzo(a) pyrene in standard with FID detector.

Miniaturization, sensitivity, mobility and flexibility are its main features. Everything from the sample port up to the data storage is integrated in a 19''-rack 5U:
- Uninterrupted sampling with pre-concentration on 1 absorbent tube
- Gas chromatograph with 0.2 mm ID metallic capillary column and programmable temperature gradient oven and pressure / flowcontrol of the carrier gas by piezo-valve

Principle:

- MFC for sampling controlled by Vistachrom to adapt sampling flow from the software
- Heated injection valve
- Automatic sampling with inbuilt heated line and concentration using an absorbent trap
- Thermo desorption from the trap and direct injection into a metallic capillary column regulated by a temperature gradient up to 350°C. The H_2 pressure (carrier gas) at the column head is controlled by a piezo valve.
- The detection of all compounds eluting from the column is performed by a FID detector.

Key points:

- Heated sampling line up to heated valve in the GC
- The following gaseous PAHs can be analyzed: Naphthalene (C10), Me-Naphtalene, 1-Me-Naphtalene, Acenaphtene, Acenaphtylene, Flourene, Phenanthrene, Anthracene, Fluoranthene, Pyrene (C16), and Benzo(a) pyrene (C20)
- Linear alcanes from C6 DimethylButane to C20 N-Eicocosane
- No condensation part for C6 to C20

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 / 4-20mA / 0-10V

The software allows the calculation of retention time, area, mass or concentration profiles.

Options:

- Det QMS for online GC MS monitoring
- MODBUS / JBUS or MGS1 communication protocol
- Analog ouput 4-20mA or 0-10V or alarms
- 24 V power supply
- Hydrogen and zero air generator for transportable analysers
- Multiplexer: up to 32 streams
- Purge module to extract VOC from water for online VOC in water analysis
- External multipoint calibration and zero with CALIB MFC, XXXCYL MFC, airmoCAL 200 MFC

Product technical specifications:

C6 to C20 analysis:

- C6 (Hexane, Dimethylbutane) to C20 (Benzo(a)pyrene and N-Eicocosane)

Detection limit:

- Benzene: 5 ppt or 0.0164 µg/m³
- Naphthalene: 10 ppt or 0.05 µg/m³

Detection range:

- Benzene: 0.1 to 380 µg/m³
- Napththalene: 0.05 to 400 µg/m³

Relative Standard Deviation:

- < 0.3 % over 48h (RT)
- < 3 % over 48 h (Conc.)

Base Line: Zero drift:

- < 2%

Linearity:

- R^2 > 0.99 on all compounds

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

Results:

- Data storage

Cycle time:

- 30 min to 60 min (depending on application)
- 90 min to 120 min (in option)

Gas supply:

- H_2 (FID and carrier gas): 30 mL/min (inlet 4 bars; 1/16'' double ferrule)
- Air (FID): 180 mL/min (inlet 4 bars ; 1/8'' double ferrule)
- Sample inlet (vacuum pump) 1/4'' double ferrule
- Pneumatic valve 90ml/commutation

Operation Temperature:

- Room with air conditioning: 20 to 30°C

Sample volume:

- Up to 2200 mL (programmable)

Power supply:

- Main: 230 V / 115 V or 50 Hz / 60 Hz
- Battery: 24 V (option)

Electrical consumption:

- Mean: 300 VA, Peak 460 VA

Dimensions and weight:

- Rack: 19'' - (5U)
- Height: 222 mm
- Width: 482 mm
- Depth: 600 mm
- Net Weight: 22 kg

To order:
airmoVOC C6-C20
5U inbuilt computer

Model:
A22022

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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