

ONLINE GAS ANALYZER EXPERTS

GAS ANALYZER GC 866

airmoVOC C6-C16

BTEX included

Analysis of up to 56 compounds from
C6 to C16: VOCs, halogen compounds (TO14), PAMS and PAHs.

Model: A22022

Environment:

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

Process:

Industrial Hygiene
Fence line monitoring

Other applications:

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



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: May 2019

Naphthalene
Styrene
BTEX
CCL4
Tri-methylbenzene
FLUORENE
Gaseous PAHs

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Description:

The airmoVOC C6-C16 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 S VOCs like linear alkanes up to N-Heptadecane or gaseous PAHs from Naphthalene to Anthracene 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 column and programmable temperature gradient oven and pressure / flowcontrol of the carrier gas by piezo-valve

Principle:

- 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 H2 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
- Gaseous PAHs from Naphthalene C10 to Fluorene C13
- Linear alkanes from C6 DimethylButane to C16 N-Hexadecane
- No condensation part for C6 to C16+

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
- Linear alkane up to C19

On-line results are transmitted via:

- MODBUS / JBUS or MGS1 communication protocol
- AirmoVOC Expert 1 ppt
- Automatic validation and calibration with internal CALIB
- 24 V power supply
- Hydrogen and zero air generator for transportable analysers
- Multiplexer: 2 to 10
- Purge module to extract VOC from water for online VOC in water analysis
- Internal or external multipoint calibration and zero with CALIB MFC, XXXCYL MFC, airmoCAL PAH

Product technical specifications:

C6 to C16 analysis:

- C6 (Hexane, Dimethylbutane) to C16 Anthracene and N-Heptadecane

Detection limit:

- Tri-methylbenzene: 10 ppt or 0.05 µg/m³
- Benzene: 1 ppt with airmoVOC Expert

Detection range:

- 0.05 to 400 µg/m³ for Tri-methylbenzene

Relative Standard Deviation:

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

Results:

- Data storage
- MODBUS / JBUS communication protocol (option)

Cycle time:

- 40 min to 60 min

Gas supply:

- H2 (FID and carrier gas): 30 ml/min (inlet 2 bars; 1/16" double ferrule)
- Air (FID): 180 ml/min (inlet 3 bars ; 1/8" double ferrule)
- Sample inlet (vacuum pump) 1/4" double ferrule

Sample volume:

- 30 to 700 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-C16
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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