

ONLINE GAS ANALYZER EXPERTS

GAS ANALYZER GC 866

airmoVOC WMS

Surveillance of VOC in water - BTEX included
Based on EPA* 502.2 Method



Model: A25022

Water markets

Finished drinking water
Raw source water
Drinking water
Surface water
Wastewater (head space / ppt)
Rain water

Air markets in option

Ambient air control
Urban/Non urban area pollution control
Indoor measurements
BTEX/PAMS/CE analysis

Process

Finished water
Waste water / effluent



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: November 2019

Chlorobenzene

STYRENE

BTEX

TRIMETHYLBENZENE

TRICHLOROETHYLENE

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Principle:

The airmoVOC C6/C12 uses a valve with a sample trap. It also features a metallic capillary column.

- 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 metallic column with programmable temperature gradient oven.

Pressure control of the carrier gas by piezo-valve.

- One week tested after production for quality control.

Vistachrom software enables the user to visualize and store data on a PC.

Furthermore it provides comfortable utilities to recalculate, calibrate and export data and to set-up measurement.

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

Purge: for on line analytic instrument

- Based on EPA 502.2 Method
- 5 ml of water sample as standard or optional 25 ml sparger
- Purge with inert gas: ultra pure N2 (Ultra High Purity) – 40 ml/min
- Sampling time: 11 minutes
- Dead volume < 15 mL (volume between water and trap)
- Bubbles with a diameter < 3 mm at the origin of the frit
- Automatic rinse (twice as standard)

Example of application

| All VOC below can be analysed | N° CAS | All VOC below can be analysed | N° CAS |
|-------------------------------|----------|-------------------------------|----------|
| 1,2-Dichloroethane | 107-06-2 | o-Xylene | 95-47-6 |
| Benzene | 71-43-2 | Isopropylbenzene | 98-82-2 |
| 1,2-Dichloropropane | 78-87-5 | 1,3,5-Trimethylbenzene | 108-67-8 |
| Trichloroethylene | 79-01-6 | 1,2,4-Trimethylbenzene | 95-63-6 |
| Toluene | 108-88-3 | 1,3-Dichlorobenzene | 541-73-1 |
| Tetrachloroethylene | 127-18-4 | 1,4-Dichlorobenzene | 106-46-7 |
| Chlorobenzene | 108-90-7 | 1,2-Dichlorobenzene | 95-50-1 |
| Ethylbenzene | 100-41-4 | 1,2,4-Trichlorobenzene | 120-82-1 |
| * m-Xylene | 108-38-3 | 1,2,3-Trichlorobenzene | 87-61-6 |
| * p-Xylene | 106-42-3 | Hexachloro-1,3-butadiene | 87-68-3 |
| Styrene | 100-42-5 | *SUM of M+P Xylene | |

Options:

- MODBUS RTU
- Automatic validation and autocalibration
- Nitrogen generator up to 200 ml/min
- Modem support and remote control
- 4 or 8 Analog outputs 4-20 mA or 0-10 V

Product technical specifications:

Analysis by airmoVOC:

3 main solutions :

Up to 60 compounds with :

- 60 compounds : our Purge & Trap 2 GC FID
- 50 compounds : our Purge & Trap 1 GC FID
- 50 compounds : our Purge & Trap 1 GC PID
- BTEX and chlorine compounds

Detection limit:

- < 0.05 µg/l for BTEX

Detection range:

- 0.5 to 20 µg/l for surface water and finished drinking water

Relative standard deviation (RSD):

- < 0.3% over 48h (Retention Time)
- < 3% over 48h (Concentration)
- < 10% for water analysis (Concentration)

Base Line: Zero drift:

- < ±3%

Linearity:

- R² > 0.99 on all compounds

Results:

- Data storage
- 4-20 mA current output (option)
- MODBUS / JBUS or MGS1 communication protocol (option)

Cycle time:

- 30 min or 60 min

Gas supply:

- H2 (FID and carrier gas): 30 ml/min (inlet 2 bars ; 1/16" Swagelok)
- Air (FID): 180 ml/min (inlet 2 bars ; 1/8" Swagelok)
- N2 (Purge): 40 ml/min (inlet 3 bars ; 1/8" Swagelok)
- Sample inlet (vacuum pump) ; 1/4 Swagelok

Purge:

- ZERO N2 analysis
- ZERO WATER analysis (Blank)
- Standard water analysis

Power supply:

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

Electrical consumption:

- Mean: 150 VA, Peak 360 VA

Installation in a wall-mounted cabinet:

- Height: 800mm
- Width: 600mm
- Depth: 300mm
- Net weight: 40 Kg

To order:

airmoVOC WMS

Model:

A25022

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

To contact us: info@chromatotec.com

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Houston - USA

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