

# airmoVOC BTEX MCERTS

A GC/FID instrument for automatic, continuous monitoring of BTEX in air, water or soil



Model: A21022



## Applications of the airmoVOC BTEX MCERTS:

Benzene, toluene, ethylbenzene, xylenes, styrene, cyclohexane

In option: Phenol, Naphthalene, Terpenes compounds

### Environment:

Monitoring of urban and non-urban pollution

Monitoring of industrial nuisance

### Industrial:

Industrial health and safety monitoring

Process Quality Control

### Other Applications:

Waste water (headspace / ppt)

Drinking water

CO2 purity control for drinks market...

*Analyser certified by laboratory accredited to the norme EN-14662-3 for measurement of benzene:*

SCAN or CLICK ME



Selected by US EPA



1996



2006



2010-G212

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: March 2024

Ethylbenzene

Toluene

1.3 Butadiene

Cyclohexane

Benzene

Styrene

Xylene (o,m,p)

# airmoVOC BTEX MCERTS

A GC/FID instrument for BTEX monitoring in air, water and soil



## Description:

The airmoVOC BTEX MCERTS is a gas chromatograph for analysis and monitoring of trace amounts of benzene, toluene, ethylbenzene, (m/p/o) xylene by FID detection.

## Principle:

- Automatic sampling and concentration using an absorbant trap
- Desorption from the trap and injection into a metallic capillary column regulated by a temperature gradient. The H2 pressure 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:

The airmoVOC BTEX MCERTS is equipped with an integrated PC including the Vistachrom software. The internal calibration option CALIB allows for automatic validation of results at low ppb.. (Certified Benzene tube at  $\pm 10\%$ ).

The instrument is robust, compact and very low maintenance and offers excellent result quality : repeatability, linearity, stability and sensibility (ppt).

TÜV Certificate for BTEX in 1996  
MCERTS Certificate for A21022 : Sira MC130231/03, 25 July 2018  
Selected by national US EPA

## 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

## Options:

- DET QMS for online GCMS
- AirmoVOC BTEX expert 1 ppt LDL
- Automatic validation and calibration with internal CALIB
- 24 V DC power supply
- Hydrogen and zero air generators for autonomous analysers
- Multiplexer: 2 to 32 streams
- Purge module to extract VOC from water for online VOC in water analysis
- Internal or external multipoint calibration and zero with CALIB MFC, XXX-CYL MFC, airmoCAL PAH
- airmoVOC C6C12 for more VOCs
- airmoVOC C6C16 for more VOCs and S VOCs
- Analog output 4-20 mA or 0-10 V
- Wall mounted box XXX934

## Product technical specifications:

### BTEX analysis: 8 compounds

- 8 compounds with 7 peaks: Benzene, Toluene, Ethylbenzene, M+P Xylene, O Xylene, Cyclohexane\* and Styrene\*
- More VOCs in option: Naphtalene, Phenol, 1.3 Butadiene

### Detection limit:

- Benzene < 20 ppt or 0,064  $\mu\text{g}/\text{m}^3$

### Standard detection range:

- 0,1 to 380  $\mu\text{g}/\text{m}^3$  for Benzene
- standard ambient air monitoring 0 to 50  $\mu\text{g}/\text{m}^3$

### Relative Standard Deviation:

- < 0.3 % over 48 h (retention time)
- < 3 % over 48 h (concentration)

### 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
- MODBUS RTU / JBUS communication protocol

### Cycle time:

- 15, 20 or 30 min (A21022 BTEX Mcerts)
- 30 min (A21022 BTEX-B Mcerts)
- 20 min (A26022)

### Gas supply:

- H2 (FID and carrier gas): 30 ml/min (supply 2 bar ; 1/16" double ferrule
- Air (FID) : 180 ml/min (supply 3 bar ; 1/8" double ferrule
- Sample supply (sample pump) 1/4" double ferrule
- Pneumatic valve 90ml/commutation

### Operation Temperature:

- Room with air conditioning: 10 to 35°C

### Power supply:

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

### Electrical consumption:

- Average: 150 VA ; Peak : 360 VA

### Dimensions and weight:

- Rack: 19" (5U)
- Height: 222 mm
- Width: 482 mm
- Depth: 600 mm
- Net weight analyser: 22 kg

\* Simplified QC on these compounds in standard



### To order:

airmoVOC BTEX Mcerts  
airmoVOC BTEX-B Mcert  
airmoVOC 1,3 Butadiene Benzene

### Model:

A21022 BTEX Mcerts  
A21022 BTEX-B Mcerts  
A26022

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

To contact us: [sales@chromatotec.com](mailto:sales@chromatotec.com)



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