

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:



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 2021

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

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