

# airmo BTX 1000

Ref. A31022 & A34022 (with CALIB)

A GC/FID for automatic monitoring of BTEX in air, water and soils

It is the only instrument to have DIN approval (Norm **DIN 33963** part I and II) for both mobile and fixed measurement of BTEX. Testing was carried out by the respected **TÜV Laboratory**.



### Beverage & Food Industry

Waste water, drinking water  
(ppt level / headspace).  
CO<sub>2</sub> quality used in the beverage

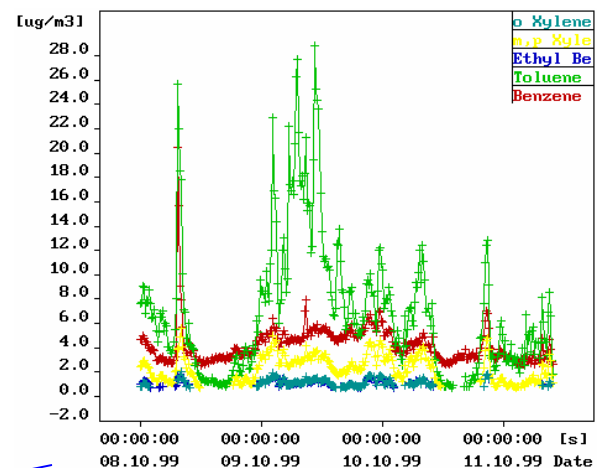
### Environment

Urban Pollution monitoring  
BTEX analysis for nonurban areas

### Industry

Fence line  
Industrial Hygiene  
Process

Trend of BTEX concentrations in 1999 on a period of 72 hours.  
Benzene : 1 PPB = 3.25 µg/m<sup>3</sup>  
(Bordeaux – France area)



50% results are between 0,2 and 1µg / m<sup>3</sup> for Ethylbenzene, M, P and O Xylene

Chromatotec is specialised in VOC, sulphur, O<sub>2</sub>/CO/CO<sub>2</sub>/NO<sub>x</sub>, combustion gases and permanent gases analysis at trace and ultra trace levels (ppm, ppb, ppt).  
Feel free to visit our web site for more details:  
<http://www.chromatotec.com>

Printed Matter Reference: TSP-A31A34-0010E-airmoBTX-070309.doc

Ethylbenzene

Toluene

1,3 Butadiene

Benzene

Styrene

Xylenes (o,m,p)

# airmo BTX 1000

A GC/FID for automatic monitoring of  
BTEX in air, water and soils



## ◆ Principle :

The airmoBTX 1000 is a dedicated BTEX-monitor for the analysis of traces of **Benzene, Toluene, Ethylbenzene, Xylene m&p, Xylene-O** in air, water and soil:

- ↳ 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 with internal computer**

- ↳ Uninterrupted sampling with pre-concentration on absorbent tube.
- ↳ Thermo-desorption.

Online Gas chromatograph with metallic capillary column and programmable temperature gradient oven and pressure/flow control of the H2 carrier gas by piezo-valve.

The Vistachrom software enables the user to visualize and store data on an **internal computer**. Furthermore it provides comfortable utilities to recalculate, calibrate and export data and to set-up measurement.

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

**External pump : airmoPUMP XXX901 is delivered with tubing For conection to airmoBTX**

## ◆ Options :

- ↳ analog output 4-20 mA or 0-10 V.
- ↳ Hydrogen and air zero generator : Rack 3 U
- ↳ Multiple stream selector (2 to 6) : Rack 4 U
- ↳ 24 V power supply
- ↳ **A34022 = A31022 plus CALIB ( permation tube)**



## ◆ Technical specifications products :

### BTEX Analysis:

*Standard* – 5 pics : Benzene, toluene, ethylbenzene, M + P Xylene, O Xylene

*Option 1*– 6 pics : Benzene , toluene , ethylbenzene , M+P-Xylene , O-Xylene, Styrene.

*Option 2* : Benzene , CycloHexane , 1.3 Butadiene

### Detection limit:

Benzene : Better than 50 PPT or 0,16 µg/m3

### Detection range:

0 to 32.5 µg/m3 ( 0/10PPB )

0 to 325 µg/m3 : Benzene : 1 PPB =3.25 µg/m3

0 to 3250 µg/m3

### Relative Standard Déviation:

< 0.3 % over 48h (RT)

< 2 % over 48 h (Conc.)

### Results:

-Data storage

-4-20mA current output (option)

**-MODBUS / JBUS or Bayern Hessen protocol in standard**

### Cycle time:

Depending on concentration (from 15 min to 30 min)

### Gas supply:

H2 (FID and carrier gas):30 ml/min (inlet 2 bars; 1/16" swagelock)

Air (FID): 180 ml/min (inlet 3 bars ; 1/8" swagelock)

Sample inlet (vacuum pump) ¼" swagelock

### Sample volume:

30 to 700 ml (programmable)

### Power supply:

- Main (230V 60 Hz / 115V 50 Hz)

- Power 24V (option)

### Electrical consumption:

Mean 150 VA, Peak 360 VA

### Dimension:

Rack 482 mm (19")- Height 177 mm (5U), depth 600 mm

For A34022

### Weight:

18 kg and 37 with packaging

## Your advantages :

- ↳ The best **sensitivity** of the market : FID stability
- ↳ The best **linearity** of the market
- ↳ Worldwide **EXPERIENCE**
- ↳ High **stability** : < 0.3 % on RT over 48 h.
- ↳ 100 % injection sample.
- ↳ The only instrument to be **TÜV/DIN approved** for BTEX.
- ↳ Only H2 supply for both FID and carrier gas, no N2 required.
- ↳ **Tracability** with Vistachrom.
- ↳ **A34022** Results **validation** with CALIB.

### Printed Matter Reference:

TSP-A31A34-0010E-airmoBTX-041026.doc

Due to Chromatotec continuing program on product improvements, specifications are subject to change without notice

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