

μ -airTOXIC^{BTEX} PID

a portable GC/PID for automatic monitoring of BTEX.
In air, water or soil

Based on airTOXIC-Approved and installed by US EPA



Integration in hard foam case with battery and gas cylinder



μ -airTOXIC BTEX

Environment Monitoring:

BTEX: 5 or 7 compounds
Non urban areas/Urban areas
Fence line refinery
Indoor / Outdoor air

Process:

Industrial Hygiene
Fence line

Compliant

EN 14662-3
EN 15267-1
EN 15267-2
QAL1

Standard:

Compliant with EN 14662: No interferences with BENZENE
European Directive: indoor air 2004/37/EC
Ozone and SOA precursor 2008/50/CE and 2024/2881
Pattern Approval Certificate of the Measuring Instruments of PR China



Chromatotec® is specialized 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 2026

BENZENE

TOLUENE

ETHYLBENZENE

XYLENES (O,M,P)

IAA

1,3-BUTADIENE

ETHYLENE-OXIDE
(IN OPTION)

μ-airTOXIC^{BTEX} PID

a portable GC/PID for automatic monitoring of BTEX in air, water or soil



Principle:

This instrument uses a port valve with a single absorbent trap, and capillary column.

Minimum detection level as low as 10 ppt for Benzene or other VOC (μ-A76022) in ambient air.

Miniaturization, sensitivity, mobility and flexibility are its main features.

Everything from the sample port up to the data storage is integrated with battery and nitrogen tank in a portable suitcase.

Programmed gradient temperature up to 202°C for the column oven and pressure/flow control of the carrier gas .

Linearity on area with $R^2 > 0.995$

Each analyser is analytically tested more than 5 days in QC laboratory Heated Photo Ionisation Detector (PID), 10.6 eV lamp

Vistachrom LITE software enables the user to view and store data on internal CPU board memory. It provides user friendly utilities to recalculate, calibrate and export data and to configure the measurement.

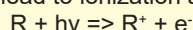
The software allows the calculation of retention time, area, mass or concentration profiles, in any measuring unit.

Thanks to integrated Wi-Fi function we can connect a mobile phone, tablet or laptop to control the instrument. A local touch screen can be installed in option for stand alone operation.

Rechargeable high-pressure cylinder for carrier gas.

Theory:

Photoionization is initiated by the absorption of short wavelength ultraviolet light by a molecule. This can lead to ionization as follows:



If the ionization potential of R is less than or equal to the energy of the photon, $h\nu$, then the species are ionized.

The detector consists of a sealed interchangeable ultraviolet lamp that emits a selected energy line.

Lamps with energies of 8.3, 9.5, 10.6 and 11.7 eV are available.

PID is linear.

Options:

- External Multipoint calibration oven and permeation tubes
- Nitrogen generator up to 300 ml/min and external compressor
- Modem support and remote control
- **Purge module to extract VOC from water for online BTEX analysis**
- Naphthalene in option
- Additional battery
- Multiple methods with a VOCs library >40 compounds (μ-airTOXIC-VOC)

Product technical specifications:

BTEX analysis: up to 8 compounds:

Benzene, Toluene, Ethylbenzene, Xylenes: Ortho, meta, para cyclohexane, styrene
1,3-Butadiene in option, IAA in option

Lower detection limit (LDL) in automatic mode:

- ≤ 0.01 ppb = 0.0325 μg/m

Detection range and linearity: BENZENE

- 3.25 to 3250 μg/m³ = 0-1000 ppb
- 0.32 to 325 μg/m³ = 0-100 ppb
- 0.032 to 32.5 μg/m³ = 0-10 ppb

Relative Standard Deviation

- Better than 1 % over 48h (Retention Time)
- Better than 2 % over 48 h on 1 ppb (Concentration)

Results:

- Internal Data storage
- Data transfert by USB port

Cycle time:

- 10,15, 20 or 30 min (μ-A73022)
- 30 min (μ-A73022-B)

Gas Consumption:

- BTEX configuration minimum 2.5 ml/min with electric injection valve (Can vary depending on column ID and applications)
- Nitrogen: 4 ml/min (inlet 3 bars; 1/8" swagelok)
- 15 mL/min, Sample inlet (vacuum pump) 1/4"swagelok
- Pneumatic valve 90 mL/min commutation

Sample volume:

- 20 to 700 ml or more (programmable)

Operation Temperature:

- From 0°C to 40°C
- Can vary depending on method used

Computerized Electronic:

- 1 USB Connecting Port
- 1 RS-232 port / 1 Ethernet
- Software: Vistachrom LITE on LINUX

Power supply:

- main: 230V / 50Hz or 115V / 60 Hz
- battery: 12V from 4 to 8 hours autonomy (depends on method used)

Dimensions and weight:

- Height 410mm, Width 340mm, Depth 180mm, Net weight 5kg

To order:

μ-airTOXIC-BTEX
μ-airTOXIC-BTEX-B
μ-airTOXIC-VOC
μ-airTOXIC-C6C12

Model:

μ-A73022-BTEX
μ-A73022-BTEX-B
μ-A73022-VOC
μ-A73022-C6C12

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

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