

Benzene

Polleno

Ethylbenzene

Xylene (o,m,p)

Benzene 1,3-butadiene optional



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A GC/PID for automatic monitoring of BTEX. In air, water and soils

Principle of the air TOXIC PID

- This instrument uses a port valve with a **single absorbent trap**, and a metallic 0.28 mm ID column.
- ➤ It has a minimum detection level of as low as 10 ppt for Benzene or 1.3.Butadiene (A75000) in ambient air.
- 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.
- Programmed gradient temperature of the oven and pressure/flow control of the carrier gas by the piezo-valve.
- Before final delivery the analyser is tested for two weeks by the quality control department.
- > Photo ionisation detector (PID), 10,6 eV lamp.
- > Self-cleaning of the lamp for high stability
- Bi-directionnal RS-232 to transfer data and results to the internal computer.
- The Vistachrom software enables the user to view and store data on a industrial computer. It provides comfortable 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 international measuring unit.
- CALIB in standard in A73000 Flow=50ml/min N2 or air in continu and 250 ml/min 6 minutes in calibration methode (one by day)
- LCD DISPLAY

Theory

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

$R + hv => R^{+} + e^{-}$

If the ionization potential of R is less than or equal to the energy of the photon, hv, then the species are ionized

The sensor 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.

Options

- Digital output: MODBUS / JBUS or MGS1 communication protocol.
- CALIB for A74000 or A75000
- Automatic validation and autocalibration
- Nitrogen generator
- Modem support and PC anywhere
- Analog output 4-20 mA or 0-10 V.
- 1.3.Butadiene (A75000)

Technical specification

BTX analysis:

Benzene

Butadiene (option A75000)

Toluene

Ethyl-benzene

Ortho, meta, para-xylene

Low detection limit (LDL) in automatic mode:

 \leq 0.01 ppb

Detection range

0,32 to $350 \mu g/m^3$ of Benzene

0-100 ppb for benzene

Relative standard variation

< 0.3 % over 48h (RT)

< 3 % over 48 h (Conc.)

Results on LCD:

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

Cycle time

15 min. as standard (30 min in option)

Gas supply

Nitrogen: 6 ml/min

(inlet 3 bars; 1/8" swagelock)

Sample inlet (vacuum pump) 1/4" swagelock

Sample volume

20 to 240 ml (programmable)

Operation Temperature

Room with air conditionning°

Computerized Electronic

- CPU: : ≥ Pentium III RAM: ≥ 256MB
- Hard Disk System: \geq 5 GB
- USB Connecting Port
- Communicate Port with Printer
- Two sets RS-232 ports
- Built-in data processing function: ≥ 56k and Internet card
- Display: ≥ 10" TFT Color TFT LCD
- Legally authorized software: ≥ Windows 98 or XP or NT. MSDOS 6.22

Power supply:

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

-battery 24V (option)

Electrical consumption

mean 150 VA, Peak 360 VA

Dimension

Rack 482 mm (19")

Height 222 mm (5U), depth 600 mm

Weight:

20 kgs

Part number:

A73000 or A74000 or A75000

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

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