TSP A73 / TSP A74 / TSP A76



EXPERTS IN GAS ANALYSIS

GAS ANALYZER GC 866



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



Principle of the airTOXIC PID:

This instrument uses a port valve with a single absorbent trap, and a 30 meter metallic 0.28 mm ID column.

Minimum detection level as low as 10 ppt for Benzene or 1,3-Butadiene (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 in a 19"-rack 5U.

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

Linearity on area with R² > 0.995

European range: 0.45 to 45 μ g/m³ = 0.1 to 14.5 ppb.

Before delivery the analyser is tested for one week by our quality control department.

Photo ionisation detector (PID), 10,6 eV lamp.

Self-cleaning of the lamp ensures high stability.

Bi-directionnal RS-232 C to transfer data and results to the internal computer.

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 measuring unit.

LCD DISPLAY

Results output: different communication protocols available

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.

NORTH AMERICA

CHROMATOTEC Inc.

Houston TX 77058 - USA

Phone: +1 (281) 335 4944

Fax: +1 (281) 335 4943

18333 Egret Bay Blvd, Suite 270,

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

Options:

- MODBUS RTU
- CALIB for A74022
- · Automatic validation and autocalibration
- Nitrogen generator up to 200 ml/min
- Modem support and remote control
- 4 or 8 Analog outputs 4-20 mA or 0-10 V
- 1,3-Butadiene (A76022)

Technical specifications:

BTEX analysis: up to 8 compounds:

 $\begin{array}{c|c} Benzene & Butadiene (model A76022)\\ Toluene & Cyclohexane\\ Ethylbenzene & Styrene\\ Xylenes: Ortho, meta, para\\ \hline \\ \hline \\ \hline \\ Lower detection limit (LDL) in automatic mode:\\ \bullet \leq 0.01 \ pb = 0.0325 \ \mu g/m\\ \hline \\ \hline \\ Detection range and linearity: BENZENE\\ \bullet 3.25 \ to 3250 \ \mu g/m^3 = 0-1000 \ ppb\\ \bullet 0.32 \ to 325 \ \mu g/m^3 = 0-100 \ ppb \end{array}$

• 0.032 to 32.5 µg/m³ = 0-10 ppb

Relative standard variation: PRECISION

- Better than 0.3 % over 48h (Retention Time)
- Better than 2 % over 48 h on 1 ppb (Concentration) Results on LCD:
 - · Data storage
 - 4 or 8 x 4-20 mA or 0/10 V output in option
 - MODBUS RTU / JBUS or Bayern Hessen protocol

Cycle time:

• 15 or 20 or 30 min Gas supply:

- Nitrogen: 4 ml/min (inlet 3 bars; 1/8" swagelok)
- Air or nitrogen for CALIB: 50 ml/min continuously and 180 ml/min in CALIB method
- Detector cleaning: 3 ml/min
- 15ml/min, Sample inlet (vacuum pump) 1/4"swagelok

Sample volume

20 to 400 ml or more (programmable)

Operation Temperature

Room with air conditioning: 10 to 35°c

Computerized Electronic:

- 4xUSB Connecting Port
- Two RS-232 ports
- Display: 10" TFT Color LCD
- · Software: Windows XP embeded

Power supply:

- main: 230V / 50Hz or 115V / 60 Hz
- battery: 24V (option)

Electrical consumption

Average: 150 VA, Peak 360 VA

ASIA

Dimensions and weight:

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

For ordering:	Model:
 airTOXIC BTX - inbuilt computer / Calibration & airmoCOM XXX001 included - 5U 	A73022
 airTOXIC BTX - inbuilt computer / airmoCOM XXX001 included - 5U 	A74022
airTOXIC VOC - inbuilt computer - 5U	A77022

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.

To contact us: info@chromatotec.com

EUROPE AIRMOTEC AG SAS 15 rue d'Artiguelongue 33240 Saint-Antoine - FRANCE Phone: +33 (0) 557 940 626 Fax: +33 (0) 557 940 620

CHROMATOTEC Trading (Beijing) Co., Ltd. Room 1806, Building 1, Wanda Plaza, No.93, Jianguo Avenue, Chaoyang District, Beijing 100022 - CHINA Phone: +86 (0) 105 960 3283

WWW.CHROMATOTEC.COM