TSP A73 / A73-B / A76





GAS ANALYZER GC 866



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airTOXIC^{BTX} PID a 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 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 an industrial computer. 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.

LCD DISPLAY

Results output: different communication protocols available

CALIB included in A73022/-B MCERTS with Benzene Permeation tube Automatic validation and autocalibration

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 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:

- MODBUS RTU
- · Internal Multipoint calibration with CALIB
- Nitrogen generator up to 300 ml/min
- · Modem support and remote control
- 4 or 8 analog outputs 4-20 mA or 0-10 V
- 1,3-Butadiene (A76022 or A73022-B)
- Purge module to extract VOC from water for online BTEX analysis



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 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, 20 or 30 min (A73022)
- 30 min (A73022-B)
- 20 min (A76022)

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:

- 4 USB Connecting Port
- · Two RS-232 ports
- Display: 10" TFT Color LCD
- · Software: Windows 7 embeded

Power supply:

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

Electrical consumption:

· Average: 150 VA, Peak 360 VA

Dimensions and weight:

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

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

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



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