

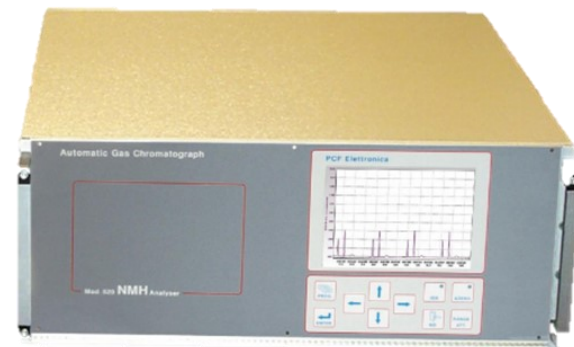
PCF 530® BTEX PID- AQMS Analyser

Description - The 530® PID BTEX Analyser detector is a heated carbon rings atoms counter. The FID detector built-in to the 110® and 529® analyser series has here been replaced with the last generation of PID detectors in order to minimise the cost without compromising the accuracy. Electrical charges in the detector generated by UV light (PID) are proportional to carbon content in the sample. The electrical charges are collected by two polarised electrodes and converted by an electrical circuit into an electronic signal.

The PCF's Mod. 530 BTEX (Non Methane Hydrocarbon) gas chromatographic analyser is intended for continuous monitoring of Total Hydrocarbons (THC) and the methane (CH₄) fraction **in ambient air and indoor air**. The separation of methane fraction is based on the chromatographic method. Once specified the CH₄ is measured separately and then subtracted from Total Hydrocarbons concentrations. The measuring sequences are managed by the built-in 10 port rotation valves enabling sequential measurement of **Benzene, Toluene, Ethylbenzene and Xylene**. A zero calibration cycle triggered automatically before each measuring cycle guarantees a **high signal stability** and efficient drift compensation.

529® PID - AQMS

High Performance
Air Quality Monitoring



Benzene

Ethylbenzene

Toluene

Xylene

PCF 530® PID AQMS - Key Features

Combination of GC and PID methods	Proprietary micro FPD detector
Online simultaneous monitoring of Benzene, Toluene, Ethylbenzene and Xylene	19 inch rack mount enclosure
Built-in automatic ignition	Stainless steel connectors for gas inlet/outlet and zero air inlet ports, Built-in Sampling Pump and flowmeter
Fully automatic standalone system for fast, accurate and reliable analysis of THC, CH ₄ and NMHC	Modular and universal high performance associated gas sampling system
Keyboard / LCD display interface for configuration & calibration	PFA and PTFE gas path

Air Quality Monitoring Systems

The use of a **dedicated sampling system** is necessary to ensure application specific and reliable sample preparation.

AquaGas sampling equipment and solutions cover a large range of applications within Air Quality Monitoring industry. Our gas coolers, heated sampling probes, heavy duty pumps (...) enable efficient ambient or indoor air online measurement with **automated sampling sequences**, multipoint monitoring, high performance gas conditioning and deep filtration features.



PCF 530® BTEX PID AQMS- Specifications

INTEGRATION

Dimensions	19inch rack mount unit
Weight	480x190x560 mm 15kg
Flow	500 ml/min.
Response time	TD+T90 < 180 seconds
Warm- up time	5 min
inlet pressure	2kPa - 50kPa
Interface	LCD display + keyboard
Output	RS232 / 4-20mA / dry contact alarm
Power supply	240 VAC 50 +/-1Hz
Analogue outputs	0-1/ Vdc and 4-20 mA for each component
Utilities	Nitrogen : 10 ml/min nitrogen Pure air : 300 ml/min Service air : 4.5 Bar (63 psi)
Operating conditions	Temp 0-40C Pressure 86-108kPa Humidity 5-85% non-condensing

ANALYTICAL

Measured gases	Benzene, Toluene, Ethylbenzene, Xylene
Measuring ranges	0-100 / 0-500 / 0-1000
Units	µg/Nm ³
Background noise	≤ 0.05 µg/Nm ³
Lower Detection Limit	< 0.1 µg/Nm ³
Zero drift	≤ 1 µg/Nm ³
Span drift	≤ 1 µg/Nm ³
Linearity	better than 1% full scale
Calibration standard	100 ppb of Benzene, Toluene and p-Xylene in nitrogen
Accuracy	0.5 µg/Nm ³

