

PCF 530® BTEX PID- AQMS Analyser

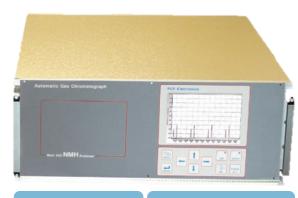
Description - The **FID detector** is a carbon atom counter. A sample is introduced into a micro flame lit by hydrogen and air (1:10 ratio), where the electrical charges generated by the oxidation of Cx to CO are proportional carbon content in the sample. The electrical charges are collected by two polarised 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® FID - AQMS

High Performance
Air Quality Monitoring



Benzene

Ethylbenzene

Toluene

Xylene

PCF 530® BTEX PID CEMS - Key Features

Combination of GC and FID methods

Proprietary micro FID detector

Online monitoring of THC, CH4 and NMHC

19 inch rack mount enclosure

Built-in automatic ignition

- Stainless steel connectors for gas inlet/outlet and zero air
- Fully automatic standalone system for fast, accurate and relia ble analysis of THC, CH4 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[®] FID AQMS- Specifications

	INTEGRATION		ANALYTICAL
Dimensions	19inch rack mount unit	Measured gases	Benzene, Toluene, Ethylbenzene, Xylene
Weight	480x190x560 mm		
	15kg		
Flow	500 ml/min.	Measuring ranges	0-100 / 0-500 / 0-1000
Response time	TD+T90 < 180 seconds	Units	μg/Nm3
Warm- up time	5 min		
inlet pressure	2kPa - 50kPa	Background noise	0.01 ppm
Interface	LCD display + keyboard	Lower Detection	< 0.1 µg/Nm3
Output	RS232 / 4-20mA / dry contact alarm	Limit Zero drift	
Power supply	240 VAC 50 +/-1Hz		≤ 1 µg/Nm3
Analogue outputs	0-1/ Vdc and 4-20 mA for each component	Span drift	≤ 1 µg/Nm3
Utilities	Hydrogen: 30 ml/min	Linearity	better than 1% full scale
	Pure air : 300 ml/min	Calibration	100 ppb of Benzene, Toluene and p-Xylene
	Service air : 4.5 Bar (63 psi)	standard	in nitrogen
Operating	Temp 0-40C Pressure 86-108kPa	Accuracy	0.5 µg/Nm3
conditions	Humidity 5-85% non-condensing	, sounday	о.о далино

