# PAH Probe Fluorometer UV

Online hydrocarbon monitoring



### **Applications**

- · Monitoring drinking water resources
- · Biological wastewater treatment plants protection
- · Control of industrial discharges
- · PAH measurement in process water

#### **Advantages**

- · In situ measurement, no sampling no reagents
- · Direct analog output (4-20 mA) without external transmitter
- · Optical window with coating to minimize clogging
- · Real time measurement
- · Automatic compensation of lamp power loss

#### Check the water quality 24 hours a day

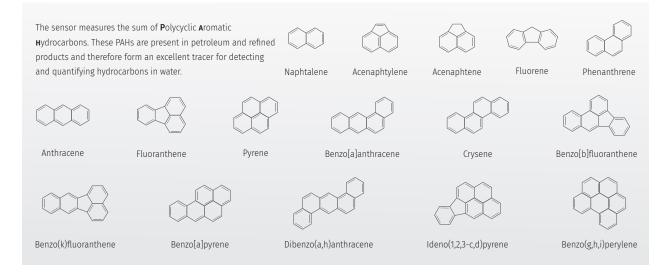
Either for control wastes or spot a pollution in natural environment, hydrocarbons monitoring in water became a public authoritie's priority. Our energy consumption as well as the increase of industrial production build-up hydrocarbons pollutions in water. In front of these problem affecting health and environment, it is mandatory to strengthen detection in natural environment. The respect of the standards has as an objective to secure a good chemical condition of surface water.

The HAP probe is a fluorimeter that accurately and continuously measures the concentration of Polycyclic Aromatic Hydrocarbons in water. The UV fluorescence measurement principle used is much more sensitive than the conventional infrared scattering or absorption method. The sensor is able to detect any trace of PAHs in resource water or in cooling water condensates, for example.

This immersible probe operates without sampling and requires no on-site calibration. The only maintenance operation is to re-calibrate the probe every 2 years and to replace the excitation lamp after 4 years of use.

#### Adapt it to your installations

The sensor has many accessories to optimize its integration in processes, manholes or to monitor water level variations, automate cleaning and facilitate the exploitation of the data. Measurement campaigns and mobile applications are also possible with an optional battery operating system.





BTX Probe

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## **Technical specifications**

		1711111000	DIMITORE
Measurement technology	Light source	Xenon flash lamp + filter (254 nm)	or 254 nm
	Detector	Photo diode + filter (360 nm)	Photodiode + filter 289 nm
Measurement principle		Fluorescence	Fluorescence
Parameter		PAH, oil	Mono-aromatic hydrocarbons
Measuring range	enviroFlu-HC 500	PAH: 050 ppb, 0500 ppb Oil: 01.5 ppm, 015 ppm typical	enviroFlu-BT: Anisole: 20 10,000 μg / l p-Xylene: 60 10,000 μg / l Toluene: 0.25 130 mg / l Benzene: 2 1000 mg / l
	enviroFlu-HC 5000	PAH: 0500 ppb, 05000 ppb Oil: 015 ppm, 0150 ppm typical	
		enviroFlu-HC 500 0.3 ppb	Detection limit : Anisole: 20 μg / l p-Xylene: 60 μg / l Toluene: 260 mg / l Benzene: 2000 μg / l
Detection limit		enviroFlu-HC 5000 0.5 ppb	
T100 response time		< 10 s	
Measurement interval		> 5 s	
Material		Stainless steel (1.4571/1.4404) or titanium (3.7035)	
Dimensions (L x d)		311 mm x 68 mm	
Weight		2.7 kg stainless steel - 1.9 kg titanium	
Interface	Digital	RS-232	
	Analog	4-20 mA, 05 VCC	
Power supply		1224 VDC (± 10 %)	
Consumption		< 3,5 W	
Maintenance effort		<0.25 h / month (standard use - cleaning the optical window)	
Calibration interval		24 months	
Warranty		24 months in the European Union	
Max. pressure	with SubConn	30 bar	
	with fixed cable	3 bar	
	in FlowCell	1 bar, 24 L/min	
Protection type		IP68	
Sample temperature		+ 2 + 40 °C	
Ambient temperature		- 5 + 55 °C	
Storage temperature		- 20 + 80 °C	
Inflow velocity		0,1 10 m/s	

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