microFlu PAH

Fluorometer UV

Online hydrocarbon monitoring

High technology at a low price

The microFlu V2 HC probe is the new probe for measuring hydrocarbon concentrations in water.

The principle of measurement by UV fluorescence allows operation in all types of water, by directly immersing the sensor in water. This technology, which is much more sensitive than the conventional infrared diffusion or absorption method, allows the detection of the smallest traces of PAH *.

The fields of application extend from the monitoring of wastewater and runoff, to the measurement of the quality of the resource, through the detection of leaks in cooling circuits and the control of scrubber water.

This probe operates without sampling and does not require any on-site calibration. The only maintenance operation is to re-calibrate the probe every 2 years.

For more demanding applications, see enviroFlu HAP probe.

Applications

- Control of industrial discharges and wastewater
- Protection of membranes in desalination plants
- Protection of biological WWTP
- Control of washing water from purifiers on ships
- Outflow detection in cooling condensates
- Environmental monitoring

Advantages

- In situ measurement, no sampling no reagents
- Automatic cleaning by compressed air injections
- Operation even in contaminated water
- Optical window with coating to minimize clogging
- Float assembly for monitoring variations in water levels

Adapt it to your installations

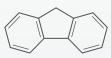
The sensor has many accessories to optimize its integration in processes, manholes or to monitor water level variations, automate cleaning and facilitate the exploitation of the data. Measurement campaigns and mobile applications are also possible with an optional battery operating system.

*The sensor measures the sum of **P**olycyclic **A**romatic **H**ydrocarbons. These PAHs are present in petroleum and refined products and therefore form an excellent tracer for detecting and quantifying hydrocarbons in water.

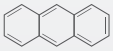

Naphtalene

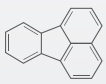

Acenaphtylene


Acenaphtene

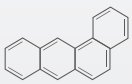

Fluorene

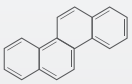

Phenanthrene

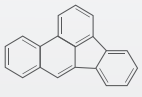

Anthracene

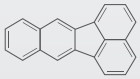

Fluoranthene

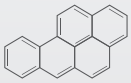

Pyrene

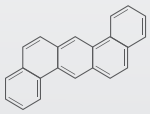

Benzo[a]anthracene

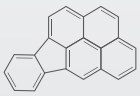

Crysene


Benzo[b]fluoranthene


Benzo(k)fluoranthene


Benzo[a]pyrene


Dibenzo(a,h)anthracene


Ideno(1,2,3-c,d)pyrene


Benzo(g,h,i)perylene

aquams

microFlu PAH
Fluorometer UV

Technical specifications

Measurement technology	Light source	LED 255 nm
	Detector	Photodiode + Filter 360 nm
Measurement principle		Fluorescence
Parameter		PAH, mineral oils
Measuring range		PAH : 0...5000 ppb
		Oil : 0...150 ppm typ.
Detection limit		PAH: 5 ppb
		Oil : 0.15 ppm typ.
Measurement accuracy		±10 %
Turbidity compensation		No
Data logger		No
T100 response time		6 s
Measurement interval		3 s
Material		Stainless steel (1.4571/1.4404) or titanium (3.7035)
Dimensions (L x d)		162 mm x 48 mm
Weight		650 g stainless steel - 510 g titanium
Interface	Digital	RS-485, Modbus RTU
	Analog	4-20 mA, 0...5 VDC, 0...10 VDC
Power supply		12 ... 24 VDC (+/- 10%)
Consumption	with digital output	max. 0.6 W
	with analog output	max. 1.1 W
Maintenance		≤ 0.5 h/mois (usage standard - nettoyage de la fenêtre optique)
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, 2...4 L/min
Protection type		IP 68
Sample temperature		+ 2 ... + 40 °C
Ambient temperature		+ 2 ... + 40 °C
Storage temperature		- 20 ... + 80 °C
Inflow velocity		0,1...10 m/s