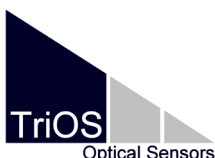# enviroFlu-HC
PAH, Oil-in-Water
by UV-fluorescence

enviroFlu-HC is a new generation of high sensitive submersible sensors for oil-in-water measurement. The used UV fluorescence principle for detection is much more sensitive than any other existing detection principle, like infrared scattering, etc. This allows the detection of PAH (polycyclic aromatic hydrocarbon) traces in water down to single ppb levels, e.g. in drinking water or condensate applications. Typical applications are discharge monitoring of airports and factories, leakage detection and many others. The sensors can be used either in stationary or portable applications. A new innovative coating on the lenses is preventing the optics from fouling and oil films, making the enviroFlu-HC longterm stable and virtually maintenance free.

- drinking water
- waste water
- airport monitoring
- cooling water

- desalination
- refineries
- pipeline leakage detection
- bilge water monitoring

enviroFlu-HC

Info

	enviroFlu-HC UV-fluorometer for detection of PAH in water
excitation wavelength	254nm
detector	360nm peak
ranges	enviroFlu-HC 500: 0..50ppb, 0..500ppb enviroFlu-HC 5000: 0..500ppb, 0..5000ppb
detection limits	0.1ppb (in pure water)
	calibrated to phenathrene solution
	values can be transformed to total-oil concentrations giving typical detection ranges of up to 200ppm total oil
interfaces	RS232, 0..5VDC, 4..20mA
power supply	12..26 VDC
housing	POM and stainless steel (1.4571) or titanium
size	d= 68mm, length= 311mm (without connector)
depth rating	300m or 6.000m deepsea version
connector	SubConn micro series 8 pin, male
weight in air	1.85 kg (titanium), 2.7 kg (stainless steel)
operation temperature	0 - 40°C
PAH: **P**olycyclic **A**romatic **H**ydrocarbons	

enviroFlu-HC with SolidCAL-HC solid secondary standard

A new innovative nano-coating on the optical lens prevents oil-films and fouling

order codes

10 1030	enviroFlu-HC Ti 500 (titanium)	41 0000	TriBox2 (controller) 85-265VAC
10 1031	enviroFlu-HC Ti 5000 (titanium)	41 0001	TriBox2 (controller) 24VDC
10 1032	enviroFlu-HC 500 (stainless)	20 6011	flow through unit
10 1033	enviroFlu-HC 5000 (stainless)	20 6020	Panel for TriBox2, flowcell & sensor
10 1034	enviroFlu-HC deepsea 500 (titanium)	20 6022	Panel for flowcell & sensor
70 4001	airclean head	21 20XX	SolidCAL-HC, solid secondary standard