

## microFlu V2 HC

37S80XX13



microFlu V2 HC is a new immersion probe for measuring oil in water. The measuring principle of UV fluorescence used is many times more sensitive and specific than the conventionally used infrared scattering or absorption methods. This makes it possible to determine even the smallest traces of PAHs, e.g. in drinking water, but also in cooling water condensates. The field of application ranges from petrochemistry, leakage detection in cooling and waste water streams to environmental monitoring. The instruments can be used stationary in manholes or in flow-through, as well as in pipelines. A nano-coating reduces the contamination of the optical measuring windows and thus reduces the required maintenance to a minimum.

microFlu V2 HC is equipped with an RS-485 interface that allows easy and fast sensor configuration via Modbus and also has an analog interface. Integration with existing process control systems and external data loggers has never been easier.

### Advantages

- without sampling and sample preparation
- without delay
- without reagents
- high sensitivity and selectivity
- optical windows with nano-coating

### Applications

- Surface waters
- Drinking water
- Waste water
- Airports
- Cooling water
- Desalination plants
- Refineries / Gas stations
- Seepage ditch (road run-off water)
- Pipeline monitoring
- Bilge water monitoring

### Technical specifications

<b>Measurement technology</b>	Light source	LED 255 nm
	Detector	Photodiode + Filter (360 nm)
<b>Measurement principle</b>		Fluorescence
<b>Parameters</b>		PAH, Oil

# microFlu V2 HC

<b>Measurement range</b>		PAH: 0...5000 ppb	
		Oil: 0...150 ppm typ.	
<b>Detection limits</b>		PAH: 5 ppb	
		Oil: 0.15 ppm typ.	
<b>Measurement accuracy</b>		±10 % FS	
<b>Turbidity compensation</b>		No	
<b>Data logger</b>		No	
<b>Reaction time T90</b>		6 s	
<b>Smallest measuring interval</b>		3 s	
<b>Interface</b>	digital	RS-485, Modbus RTU	
	analog	4...20 mA (default)	
		0 – 5 V	
		0 – 10 V	
<b>Power consumption</b>	typical	max. 0.6 W	
	with activated analog interface	max. 1.1 W	
	Power-Down	max. 70 mW	
<b>Power supply</b>		12 – 24 VDC (± 10 %)	
<b>Required supervision</b>		≤ 0.5 h/month typical	
<b>Calibration/maintenance interval</b>		24 months	
<b>Warranty</b>		1 year (EU & USA 2 years)	
<b>Housing material</b>		1 year (EU & USA 2 years)	
<b>Dimensions (L x Ø)</b>		ca. 162 mm x 48 mm	~ 6.4" x 1.9"
<b>Weight</b>	VA	~ 650 g	~ 1.4 lbs
	TI	~ 510 g	~ 1.1 lbs
<b>Max. pressure</b>	with Subconn	30 bar	~ 435 psig
	with fixed cable	3 bar	~ 43.5 psig
	in flow cell	1 bar, 2...4 L/min	~ 14.5 psig, 0.5 to 1 gpm
<b>Protection type</b>		IP68	NEMA 6P
<b>Sample temperature</b>		+ 2 .. + 40 °C	~ +36 °F to +104 °F
<b>Ambient temperature</b>		+ 2 .. + 40 °C	~ +36 °F to +104 °F
<b>Storage temperature</b>		- 20 .. + 80 °C	~ -4 °F to +176 °F
<b>Inflow velocity</b>		0,1...10 m/s	~ 0.33 fps to 33 fps