

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

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

microFlu V2 HC

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