

surFlu



Oil spills and related oil pollution pose a potential risk for businesses that use oils or lubricants in their processes in any way. Alongside our world-leading enviroFlu-HC for the detection of very small amounts in water, we now offer surFlu for the detection of oil films on water.

State-of-the-art, stable UV LED technology for fluorescence excitation and multiple detection channels for reliable detection of smallest oil films on water enable universal application of the device. Multi-channel detection ensures reliable differentiation from biogenic films (which are caused e.g. by dead algae), foliage, humic substances, undulations, thus avoiding false alarms.

Benefits

- Without sampling and preparation of test samples
- Real time sensor
- Without reagents
- Non-contact measurement
- High sensitivity and selectivity
- Interference compensation through 4 LED channel technology

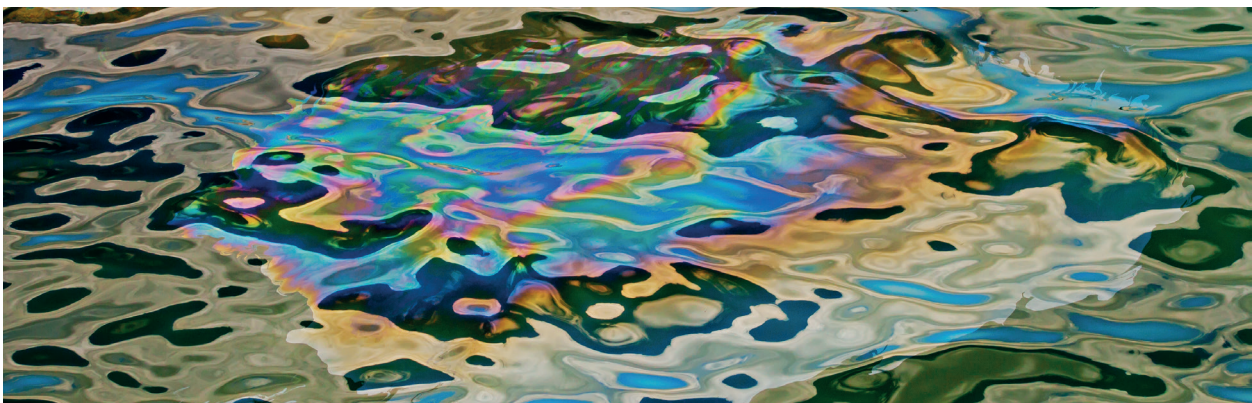
The special geometry of the optics allows large variance in the distance between sensor and water surface, so that even highly fluctuating water levels in basins, gullies, streams or rivers will have no impact on the measuring signal. The stability of measured values is boosted by an internal temperature correction.

Equipped with our innovative G2 interface with web browser configuration, internal data logger, flexible protocols and data outputs, surFlu boasts extensive features that go significantly beyond what's available on the market today.

The state-of-the-art G2 interface not only ensures quick integration into third-party systems, but also use of the wide range of accessories for our devices.

Applications

- Sewage inlets
- Seaports
- Surface waters
- Airports
- Cooling water
- Refineries



Technical Specifications

Measurement technology	light source	LED (365 nm)
	detector	4 photo diodes + filter
Measurement principle		Fluorescence
Optical path		5 m ± 3 m above the water surface
Parameter		Oil on water (PAH)
Measuring range		Adjustable
Turbidity compensation		Yes
Data logger		~ 10 MB
T100 response time		2 s
Measurement interval		1 s
Housing material		Stainless steel (1.4571/1.4404) or titanium (3.7035)
Dimensions (L x Ø)		315 mm x 68 mm
Weight	stainless steel	~ 2.7 kg
	titanium	~ 1.9 kg
Interface	digital	Ethernet (TCP/IP)
		RS-232 or RS-485 (Modbus RTU, ASCII, TriOS)
Power consumption		≤ 3 W
Power supply		12-24 VDC (± 10 %)
Maintenance effort		Typically ≤ 0.5 h/month
Calibration/maintenance interval		24 months
System compatibility		Modbus RTU
Guarantee		1 year (EU: 2 years)
INSTALLATION		
Max. pressure with fixed cable		3 bar
Protection type		IP68
Sample temperature		+2...+40 °C
Ambient temperature		+2...+40 °C
Storage temperature		-20...+80 °C