

35S10XXXX



Our high-end matrixFlu UV fluorometer combines multiple excitation and detection wavelengths for fluorescence measurements in a single device with a highly compact design. The special optical arrangement of excitation and detection channels enables not only single values to be determined, but also a 3x4 matrix of wavelength combinations. This allows quasi synchronous in-situ detection of EEMs (Excitation Emission Matrices).

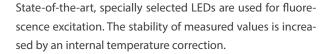
MatrixFlu UV is primarily designed for the detection of PAH's (polycyclic aromatic hydrocarbons), BTX (Benzene, Toluene, Xylene), CDOM (fluorescent organic material), and TRP(Tryptophan) concentration.

Benefits

- Without sampling and preparation of test samples
- · Real-time sensor
- · Without reagents
- · Optical window with nano coating

Applications

- · Surface water
- Bathing lakes
- · Drinking water production and treatment
- · Raw water treatment
- · Environmental monitoring



Equipped with our innovative G2 interface with web browser configuration, internal data logger, flexible protocols and data outputs, matrixFlu offers 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.



Detail of design for 3x4 wavelengths

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Ex	280	360	460	540
254	BTX	PAH	CDOM 1	CDOM 4
280	scat 280	TRP	CDOM 2	CDOM 5
320			CDOM 3	CDOM 6





The development was part of the NEXOS project and was funded by the European Union

Technical Specifications

Measurement technology	light source	LED (254 nm/280 nm/320 nm)		
	detector	4 photo diodes with filter		
Measurement	principle	Fluorescence		
		PAH [μg/L]		
		BTX [µg/L]		
Parameter		CDOM [µg/L]		
		TRP [µg/L]		
Measuring ran	ge	0500 μg/L PAH · 01000 μgL BTX · 0200 μg/L CDOM		
Measurement	accuracy	5 %		
Turbidity comp	ensation	No		
Data logger		~ 10 MB		
T100 response time		12 s		
Measurement interval		6 s		
Housing mater	ial	Stainless steel (1.4571/1.4404) or titanium (3.7035)		
Dimensions (L		155 mm x 36 mm		
Dimensions (E	stainless steel	~ 0,6 kg		
Weight	titanium	~ 0,5 kg		
	citamani	oja kg		
	digital	Ethernet (TCP/IP)		
Interface		RS-232 oder RS-485 (Modbus RTU, OGC PUCK)		
	analog	-		
Power consum	ption	≤ 1,8 W		
Power supply		1224 VDC (± 10 %)		
Maintenance e	ffort	Typically ≤ 0.5 h/month		
Calibration/maintenance interval		24 months		
System compa	tibility	Modbus RTU, OGC PUCK		
Warranty		1 year (EU: 2 years)		
INSTALLATION				
	with SubConn	30 bar		
	with fixed cable	3 bar		
	in FlowCell	1 bar, 24 L/min		
Protection type		IP68		
Sample temperature		+2+40 °C		
Ambient temperature		+2+40 °C +2+40 °C		
Storage temperature		-20+80 °C		
Inflow velocity		0,15m/s		
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