



Surface Water Monitoring

REAGENT-FREE MEASUREMENT OF COD, NITRATE AND NITRITE



a xylem brand

The spectral SF-sensors for reagent-free, optical measurement



for Systems 2020 and 282/284

Advantages:

- Optical Nitrite, Nitrate, COD/TOC/DOC/BOD/SAC/UVT and TS measurement
- Measurement options: in-situ or via overflow-vessel
- extremely robust due to high-tech materials Titanium and PEEK
- Reduction of manual maintenance to a minimum thanks to the integrated ultrasonic cleaning technology



Cleaning effect of WTW's ultrasonic cleaning technology

Technical Data

Model	NiCaVis® 705 IQ SF			NiCaVis® 705 IQ NI SF		
Measuring method	Spectral measurement in the UV-VIS range of 200-720 nm			Spectral measurement in the UV range of 200-390 nm		
Measuring gap (optical layer thickness)	5 mm			5 mm		
Application (optimized for)	Surface water e.g. rivers and lakes			Surface water e.g. rivers and lakes		
Measuring range and Resolution	TSS	0.0 ... 900.0 mg/l	0.1 mg/l	NO ₃	0.0 ... 250.0 mg/l	0.1 mg/l
	NO ₃	0.0 ... 250.0 mg/l	0.1 mg/l	NO ₃ -N	0.00 ... 50.00 mg/l	0.01 mg/l
	NO ₃ -N	0.00 ... 50.00 mg/l	0.01 mg/l	NO ₂	0.0 ... 100.0 mg/l	0.1 mg/l
				NO ₂ -N	0.00 ... 25.00 mg/l	0.01 mg/l
	COD	0.0 ... 800.0 mg/l	0.1 mg/l	COD	0.0 ... 800.0 mg/l	0.1 mg/l
	TOC	0.0 ... 500.0 mg/l	0.1 mg/l	TOC	0.0 ... 500.0 mg/l	0.1 mg/l
	DOC	0.0 ... 500.0 mg/l	0.1 mg/l	DOC	0.0 ... 500.0 mg/l	0.1 mg/l
	BOD	0.0 ... 500.0 mg/l	0.1 mg/l	BOD	0.0 ... 500.0 mg/l	0.1 mg/l
	SAC ₂₅₄ total	0.0 ... 600.0 1/m	1 1/m	SAC ₂₅₄	0.0 ... 600.0 1/m	1 1/m
	SAC ₂₅₄ dissolved	0.0 ... 600.0 1/m	1 1/m			
	UVT ₂₅₄ total*	0.0 ... 100.0 %	0.1 %	UVT ₂₅₄ total*	0.0 ... 100.0 %	0.1 %
	UVT ₂₅₄ dissolved*	0.0 ... 100.0 %	0.1 %			
Material	Housing: Titanium, PEEK Measuring window: Sapphire glass					
Pressure Resistance	≤1 bar					
Ambient Conditions	Operating temperature: 32 °F ... 113 °F (0 °C ... +45 °C) Storage temperature: 14 °F ... 122 °F (-10 °C ... +50 °C)					
Flow velocity	≤3 m/s					
pH range	pH 4 ... pH 12					
Dimensions	31.57 x 2.36 in. (802 x 59.9 mm length x diameter)					
Weight	Approx. 4 kg					
Warranty	2 years for defects in quality					

* The UVT-254 value is standardized to 10 mm gap width.

Ordering Information

Model	Description	Order No.
NiCaVis® 705 IQ SF	Spectral UV-VIS sensor (60 mm) for the measurement of Nitrate, COD, TOC, BOD, DOC, SAC, UVT254 and TS in surface water bodies with integrated ultrasonic cleaning.	481058
NiCaVis® 705 IQ NI SF	Spectral UV-VIS sensor (60 mm) for the measurement of Nitrate, Nitrite, COD, TOC, BOD, DOC, SAC, UVT254 and TS in surface water bodies with integrated ultrasonic cleaning.	481059



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