

Surface Water Monitoring

REAGENT-FREE MEASUREMENT OF COD, NITRATE AND NITRITE

WTW
a xylem brand

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

IQ SENSOR NET
for Systems 2020 and 282/284

Advatanges:

- 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: Saphire 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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