



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

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

## Ordering Information

Model	Description	Order No.
<b>NiCaVis® 705 IQ SF</b>	Spectral UV-VIS sensor (60 mm) for the measurement of Nitrate, COD, TOC, BOD, DOC, SAC, UVT <sub>254</sub> and TS in surface water bodies with integrated ultrasonic cleaning.	481058
<b>NiCaVis® 705 IQ NI SF</b>	Spectral UV-VIS sensor (60 mm) for the measurement of Nitrate, Nitrite, COD, TOC, BOD, DOC, SAC, UVT <sub>254</sub> and TS in surface water bodies with integrated ultrasonic cleaning.	481059



Xylem Analytics Germany Sales GmbH & Co. KG, WTW · Am Achalaich 11 · 82362 Weilheim · Germany  
Phone: +49 881 1830 · Fax: +49 881 183-420 · Info.WTW@xylem.com · www.xylemanalytics.com

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