



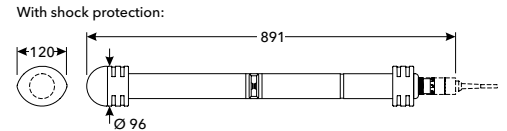
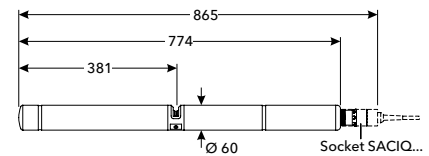
NiCaVis® optical sensors for surface water monitoring

Multiparameter-sensors with ultrasonic cleaning technology for the reagent-free measurement of color, nitrate, nitrite, carbon parameters and total suspended solids in rivers and lakes.

We would like to inform you about the application range on our website



NiCaVis® 705 IQ SF,
NiCaVis® 705 IQ NI SF,
NiCaVis® 705 IQ SF Co



Technical Data

Model	NiCaVis® 705 IQ SF			NiCaVis® 705 IQ NI SF		NiCaVis®705 IQ SF Co	
Measuring method	Spectral measurement in the UV-VIS range of 200-720 nm			Spectral measurement in the UV range of 200 - 390 nm		Spectral measurement in the UV-VIS range of 200-720 nm	
Measuring gap (optical layer thickness)	5 mm						
Application (optimized for)	Surface water e.g. rivers and lakes						
Measuring range and Resolution	NO ₃	0.0 ... 250.0 mg/l	0.1 mg/l	0.0 ... 250.0 mg/l	0.1 mg/l	0.0 ... 250.0 mg/l	0.1 mg/l
	NO ₃ -N	0.00 ... 50.00 mg/l	0.01 mg/l	0.00 ... 50.00 mg/l	0.01 mg/l	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 _{diss.}	0.0 ... 800.0 mg/l	0.1 mg/l	0.0 ... 800.0 mg/l	0.1 mg/l	0.0 ... 800.0 mg/l	0.1 mg/l
	TOC	0.0 ... 500.0 mg/l	0.1 mg/l	0.0 ... 500.0 mg/l	0.1 mg/l	0.0 ... 500.0 mg/l	0.1 mg/l
	DOC	0.0 ... 500.0 mg/l	0.1 mg/l	0.0 ... 500.0 mg/l	0.1 mg/l	0.0 ... 500.0 mg/l	0.1 mg/l
	BOD	0.0 ... 500.0 mg/l	0.1 mg/l	0.0 ... 500.0 mg/l	0.1 mg/l	0.0 ... 500.0 mg/l	0.1 mg/l
	SAC _{254 total}	0.0 ... 600.0 1/m	1 1/m	0.0 ... 600.0 1/m	1 1/m	0.0 ... 600.0 1/m	1 1/m
	SAC _{254 diss.}	0.0 ... 600.0 1/m	1 1/m			0.0 ... 600.0 1/m	1 1/m
	UVT _{254 total} *	0.0 ... 100.0 %	0.1 %	0.0 ... 100.0 %	0.1 %	0.0 ... 100.0 %	0.1 %
	UVT _{254 diss.} *	0.0 ... 100.0 %	0.1 %			0.0 ... 100.0 %	0.1 %
	TSS	0.0 ... 900.0 mg/l	0.1 mg/l				
	Hazen 340 nm					0 ... 1,050 mg/l Pt/Co	1 mg/l
	Hazen 350 nm					0 ... 1,150 mg/l Pt/Co	1 mg/l
	Hazen 390 nm					0 ... 2,100 mg/l Pt/Co	1 mg/l
	Hazen 445 nm					150 ... 10,000 mg/l Pt/Co	1 mg/l
	Hazen 455 nm					150 ... 10,000 mg/l Pt/Co	1 mg/l
	Hazen 465 nm					150 ... 10,000 mg/l Pt/Co	1 mg/l
	ISO 410 nm					0 ... 5,300 mg/l Pt/Co	1 mg/l
Accuracy (standard application surface water)	NO ₃ -N, NO ₂ -N: ± 3 % of measured value ± 0.5 mg/l Carbon parameters: ± 5 % of measured value ± 2.5 mg/l SAC: ± 0.5 % of measured value ± 0.4 SAK UVT: <10 % UVT ± 1 % UVT of measured value; >10% UVT ± 0.1 % UVT of measured value TSS: ± 5 % of measured value ± 50 mg/l Color: ± 5 % (at 410 nm) of the measurement value ± 10 mg/l						
Turbidity compensation	For color parameters: selectable						
Flow rate	≤ 3 m/s						
Pressure Resistance	Maximum 1 bar (incl. sensor connection cable)						
Electrical connections	2-wire shield cable with quick fastener to sensor						
Electromagnetic Compatibility	EN 61326, Class B, FCC Class A Intended for indispensable operation						
Certifications	CE						
Mechanical	Housing: Titan Grade 2, PEEK; Window: Sapphire glass; Protection class: IP 68						
Weight (without cable)	Approx. 8.82 lb (4 kg)						
Warranty	2 years for defects in quality						

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

Model	Description	Order No.
NiCaVis® 705 IQ SF	Spectral UV-VIS probe to measure Nitrate, COD _{diss.} , TOC, BOD, DOC, SAC, UVT ₂₅₄ and TSS in surface waters with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings	481058
NiCaVis® 705 IQ NI SF	Spectral UV probe to measure Nitrate, Nitrite, COD _{diss.} , TOC, BOD, DOC, SAC and UVT ₂₅₄ in surface waters with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings	481059
NiCaVis® 705 IQ SF Co	Spectral UV-VIS probe to measure Nitrate, Color, COD _{diss.} , TOC, BOD, DOC, SAC and UVT ₂₅₄ in surface waters with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings	481060

All probes without connecting cable (order SACIQ separately)