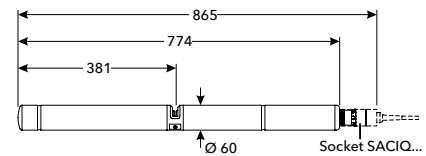




NiCaVis® optical sensors for surface water monitoring

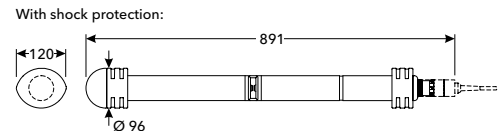
Multiparameter-sensors with ultrasonic cleaning technology for the reagent-free measurement of color, nitrate, nitrite, carbon parameters and total suspended solids in rivers and lakes.

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



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

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	0.0 ... 100.0 mg/l	0.1 mg/l	0.0 ... 100.0 mg/l	0.1 mg/l
	NO ₂ -N 0.00 ... 25.00 mg/l	0.01 mg/l	0.00 ... 25.00 mg/l	0.01 mg/l	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	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 %	0.0 ... 100.0 %	0.1 %
	TSS 0.0 ... 900.0 mg/l	0.1 mg/l			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					
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)



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