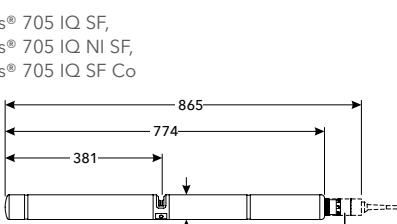
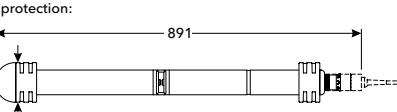


NiCaVis® optical sensors for surface water monitoring



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

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 NO ₃ -N 0.00 ... 50.00 mg/l NO ₂ NO ₂ -N COD _{diss.} 0.0 ... 800.0 mg/l TOC 0.0 ... 500.0 mg/l DOC 0.0 ... 500.0 mg/l BOD 0.0 ... 500.0 mg/l SAC ₂₅₄ total 0.0 ... 600.0 1/m SAC ₂₅₄ diss. 0.0 ... 600.0 1/m UVT ₂₅₄ total* 0.0 ... 100.0 % UVT ₂₅₄ diss.* 0.0 ... 100.0 % TSS 0.0 ... 900.0 mg/l Hazen 340 nm Hazen 350 nm Hazen 390 nm Hazen 445 nm Hazen 455 nm Hazen 465 nm ISO 410 nm	0.1 mg/l 0.01 mg/l 0.0 ... 100.0 mg/l 0.00 ... 25.00 mg/l 0.1 mg/l 0.0 ... 800.0 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 0.0 ... 600.0 1/m 1 1/m 0.0 ... 600.0 1/m 1 1/m 0.1 % 0.1 % 0.1 mg/l	0.0 ... 250.0 mg/l 0.01 mg/l 0.1 mg/l 0.0 ... 800.0 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 0.0 ... 600.0 1/m 1 1/m 0.0 ... 600.0 1/m 1 1/m 0.1 % 0.1 % 0.1 mg/l
Displayable Parameters	Up to 5 at the same time		
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		NiCaVis® 705 IQ SF, NiCaVis® 705 IQ NI SF, NiCaVis® 705 IQ SF Co
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, UKCA		
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)

