



Digital optical UV spectral probe NiCaVis® NI for nitrite, nitrate & carbon



UV probes with integrated ultrasonic cleaning for the reagent-free measurement of nitrate, nitrite and carbon parameters COD, DOC, TOC, BOD, SAC and UVT directly in the process

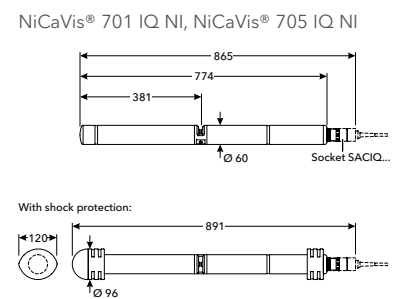
We would like to inform you about the application range on our website

Model	NiCaVis® 701 IQ NI		NiCaVis® 705 IQ NI
Measuring method	Spectral Measurement in the UV Range (200–390 nm)		
Measuring gap (optical layer thickness)	1 mm		5 mm
Application (optimized for)	Municipal wastewater:		Municipal wastewater:
Measuring range and Resolution	Inlet: NO ₃ 0.0 ... 300.0 mg/l 0.1 mg/l NO ₃ -N 0.00 ... 60.00 mg/l 0.01 mg/l NO ₂ 0.0 ... 120.0 mg/l 0.1 mg/l NO ₂ -N 0.00 ... 30.00 mg/l 0.01 mg/l COD _{total} 0 ... 20,000 mg/l 1 mg/l COD _{dissolv} 0 ... 12,500 mg/l 1 mg/l TOC 0 ... 20,000 mg/l 1 mg/l DOC 0 ... 12,500 mg/l 1 mg/l BOD 0 ... 8,000 mg/l 1 mg/l SAC _{254 total} 0 ... 5,000 1/m 1 1/m UVT _{254 total} * 0 ... 100.0 % 0.1 %		
	Aeration: NO ₃ 0.0 ... 300.0 mg/l 0.1 mg/l NO ₃ -N 0.00 ... 60.00 mg/l 0.01 mg/l NO ₂ 0.0 ... 120.0 mg/l 0.1 mg/l NO ₂ -N 0.00 ... 30.00 mg/l 0.01 mg/l COD _{dissolv} 0 ... 12,500 mg/l 1 mg/l DOC 0 ... 12,500 mg/l 1 mg/l SAC _{254 total} 0 ... 5,000 1/m 1 1/m UVT _{254 total} * 0 ... 100.0 % 0.1 %		
	Effluent: NO ₃ 0.0 ... 750.0 mg/l 0.1 mg/l NO ₃ -N 0.0 ... 150.0 mg/l 0.1 mg/l NO ₂ 0.0 ... 300.0 mg/l 0.1 mg/l NO ₂ -N 0.00 ... 75.00 mg/l 0.01 mg/l COD _{total} 0 ... 4.000 mg/l 1 mg/l COD _{dissolv} 0 ... 4.000 mg/l 1 mg/l TOC 0 ... 2.500 mg/l 1 mg/l DOC 0 ... 2.500 mg/l 1 mg/l BOD 0 ... 2.500 mg/l 1 mg/l SAC _{254 total} 0 ... 3.000 1/m 1 1/m UVT _{254 total} * 0 ... 100.0 % 0.1 %		
	Effluent: 0.0 ... 250.0 mg/l 0.1 mg/l 0.00 ... 50.00 mg/l 0.01 mg/l 0.0 ... 100.0 mg/l 0.1 mg/l 0.00 ... 25.00 mg/l 0.01 mg/l 0.0 ... 800.0 mg/l 1 mg/l 0.0 ... 800.0 mg/l 1 mg/l 0.0 ... 500.0 mg/l 1 mg/l 0.0 ... 500.0 mg/l 1 mg/l 0.0 ... 500.0 mg/l 1 mg/l 0.0 ... 500.0 mg/l 1 mg/l 0.0 ... 600.0 1/m 1 1/m 0.0 ... 100.0 % 0.1 %		

Displayable Parameters	Up to 5 at the same time
Accuracy (standard application muni. WWTP)	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
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® 701 IQ NI	Spectral UV sensor for the measurement of nitrite, nitrate, COD _{tot} , COD _{diss.} , TOC, BOD, DOC, SAC _{tot.} , SAC _{diss.} , UVT ₂₅₄ in the inlet and in the aeration with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings, without connecting cable (order SACIQ separately)	481054
NiCaVis® 705 IQ NI	Like NiCaVis® 701 IQ NI, but for the measurement in the drain/outlet	481055



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