

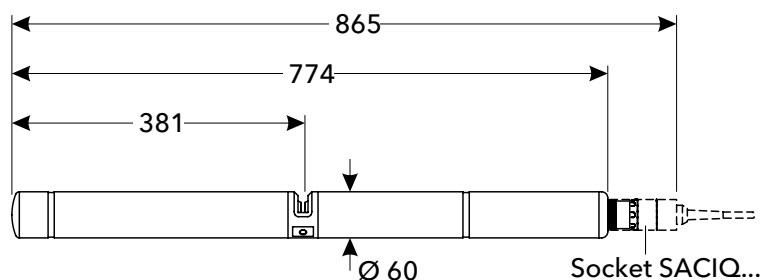


Digital optical sensors NiCaVis® for nitrate, carbon and suspended solids

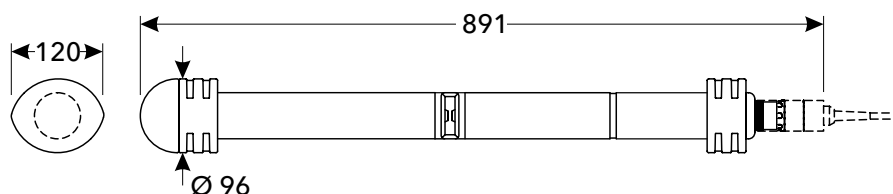
Sensor with integrated ultrasonic cleaning for the reagent-free measurement of nitrate, carbon and suspended solids (optional) in the wastewater treatment system drain

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

NiCaVis® 705 IQ, NiCaVis® 705 IQ TS



With shock protection:



Technical Data

Model	NiCaVis® 705 IQ		NiCaVis® 705 IQ TS	
Measuring method	Spectral Measurement in the UV-VIS Range (200–720 nm)			
Measuring gap (optical layer thickness)	5 mm			
Application (optimized for)	Municipal wastewater:		Municipal wastewater:	
Measuring range and Resolution	Effluent:		Effluent:	
	NO ₃	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	
	COD	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	
	DOC	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	
	SAC ₂₅₄ total	0.0 ... 600.0 1/m 0.1 1/m	0.0 ... 600.0 1/m 0.1 1/m	
	SAC ₂₅₄ dissolv	0.0 ... 600.0 1/m 0.1 1/m	0.0 ... 600.0 1/m 0.1 1/m	
	UVT ₂₅₄ total*	0.0 ... 100.0 % 0.1 %	0.0 ... 100.0 % 0.1 %	
UVT ₂₅₄ dissolv*	0.0 ... 100.0 % 0.1 %	0.0 ... 100.0 % 0.1 %		
TSS		0.0 ... 900.0 mg/l 0.1 mg/l		
Accuracy (standard application muni. WWTP)	NO ₃ -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			
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	Spectral UV-VIS probe for measuring nitrate, COD _{tot} , COD _{diss} , TOC, BOD, DOC, SAC _{tot} , SAC _{diss} , and UVT ₂₅₄ in the drain/outlet with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings, without connecting cable (order SACIQ separately)	481052
NiCaVis® 705 IQ TS	Like NiCaVis® 705 IQ, but with TS	481053