



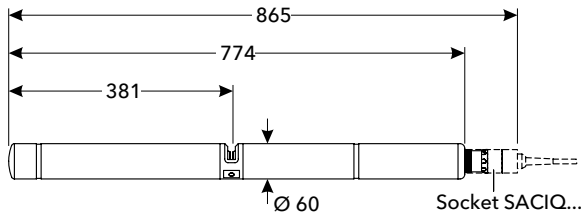
Digital optical sensors NiCaVis® for nitrate, carbon and suspended solids



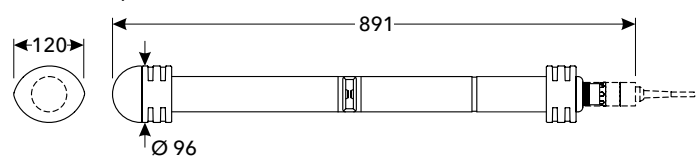
Sensor with integrated ultrasonic cleaning for the reagent-free measurement of nitrate, carbon and suspended solids (optional) in the wastewater treatment system drain

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

NiCaVis® 705 IQ, NiCaVis® 705 IQ TS



With shock protection:



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: NO ₃ 0.0 ... 250.0 mg/l 0.1 mg/l NO ₃ -N 0.00 ... 50.00 mg/l 0.01 mg/l COD 0.0 ... 800.0 mg/l 0.1 mg/l TOC 0.0 ... 500.0 mg/l 0.1 mg/l DOC 0.0 ... 500.0 mg/l 0.1 mg/l BOD 0.0 ... 500.0 mg/l 0.1 mg/l SAC ₂₅₄ total 0.0 ... 600.0 1/m 0.1 1/m SAC ₂₅₄ dissolv 0.0 ... 600.0 1/m 0.1 1/m UVT ₂₅₄ total* 0.0 ... 100.0 % 0.1 % UVT ₂₅₄ dissolv* 0.0 ... 100.0 % 0.1 % TSS	Effluent: 0.0 ... 250.0 mg/l 0.1 mg/l 0.00 ... 50.00 mg/l 0.01 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 ... 500.0 mg/l 0.1 mg/l 0.0 ... 600.0 1/m 0.1 1/m 0.0 ... 600.0 1/m 0.1 1/m 0.0 ... 100.0 % 0.1 % 0.0 ... 100.0 % 0.1 % 0.0 ... 900.0 mg/l 0.1 mg/l
Displayable Parameters	Up to 5 at the same time	
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, 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	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



Xylem Analytics Germany Sales GmbH & Co. KG · Am Achalaich 11 · 82362 Weilheim · Germany
Phone: +49 881 1830 · Fax: +49 881 183-420 · Info.XAGS@xylem.com · www.xylemanalytics.com
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