

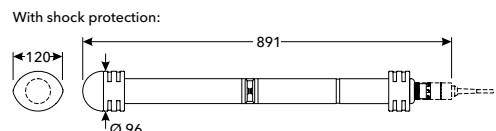
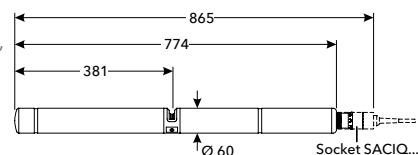
Digital optical sensors for color, carbon, TSS and nitrate

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

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



ColorVis 705 IQ,
CarboVis® 705 IQ TS Co,
NiCaVis® 705 IQ TS Co



Technical Data

Model	ColorVis 705 IQ	CarboVis® 705 IQ TS Co	NiCaVis® 705 IQ TS Co
Measuring method	Absorbance Measurement at selected wavelength	Spectral measurement in the UV-VIS range of 200-720 nm	
Measuring gap (optical layer thickness)	5 mm		
Application (optimized for)	Municipal wastewater:		
Measuring range and Resolution	Effluent: NO ₃ NO ₃ -N COD _{total} COD _{dissolv} * TOC DOC BOD SAC ₂₅₄ total SAC ₂₅₄ dissolv UVT ₂₅₄ total* UVT ₂₅₄ dissolv* TSS Hazen 340 nm Hazen 350 nm Hazen 390 nm Hazen 445 nm Hazen 455 nm Hazen 465 nm ISO 410 nm	Effluent: 0.0 ... 800.0 mg/l 0.0 ... 800.0 mg/l 0.0 ... 500.0 mg/l 0.0 ... 500.0 mg/l 0.0 ... 500.0 mg/l 0.0 ... 500.0 mg/l 0.0 ... 600.0 1/m 0.0 ... 600.0 1/m 0.0 ... 100.0 % 0.0 ... 100.0 % 0.0 ... 900.0 mg/l 0 ... 1,050 mg/l Pt/Co 0 ... 1,150 mg/l Pt/Co 0 ... 2,100 mg/l Pt/Co 150 ... 10,000 mg/l Pt/Co 150 ... 10,000 mg/l Pt/Co 150 ... 10,000 mg/l Pt/Co 0 ... 5,300 mg/l Pt/Co	Effluent: 0.0 ... 250.0 mg/l 0.00 ... 50.00 mg/l 0.0 ... 800.0 mg/l 0.0 ... 800.0 mg/l 0.0 ... 500.0 mg/l 0.0 ... 500.0 mg/l 0.0 ... 500.0 mg/l 0.0 ... 600.0 1/m 0.0 ... 600.0 1/m 0.0 ... 100.0 % 0.0 ... 100.0 % 0.0 ... 900.0 mg/l 0 ... 1,050 mg/l Pt/Co 0 ... 1,150 mg/l Pt/Co 0 ... 2,100 mg/l Pt/Co 150 ... 10,000 mg/l Pt/Co 150 ... 10,000 mg/l Pt/Co 150 ... 10,000 mg/l Pt/Co 0 ... 5,300 mg/l Pt/Co
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 ± 50mg/l Color: ± 5 % (at 410 nm) of the measurement value ± 10 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 X8		
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.
ColorVis 705 IQ	Spectral UV-VIS probe for measuring color (Hazen 340, 390, 445, 455, 465, ISO 410) with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings	481067
CarboVis® 705 IQ TS Co	Spectral UV-VIS probe for measuring color, COD _{tot} , COD _{diss} , TOC, BOD, DOC, SAC _{tot} , SAC _{diss} , UVT ₂₅₄ and TSS in the drain/outlet with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings	481065
NiCaVis® 705 IQ TS Co	Like CarboVis® 705 IQ TS Co, but with nitrate	481066

All probes without connecting cable (order SACIQ separately)