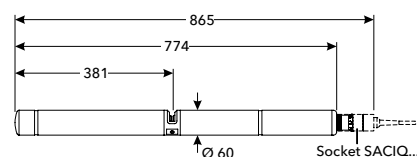




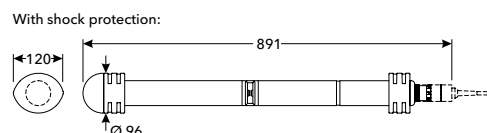
Digital optical sensors for color, carbon, TSS and nitrate

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

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



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



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:	Effluent:		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 _{total}	0.0 ... 800.0 mg/l	0.1 mg/l	0.0 ... 800.0 mg/l	0.1 mg/l
	COD _{dissolv} * TOC	0.0 ... 800.0 mg/l	0.1 mg/l	0.0 ... 800.0 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} * UVT _{254 dissolv} * TSS	0.0 ... 100.0 %	0.1 %	0.0 ... 100.0 %	0.1 %
		0.0 ... 100.0 %	0.1 %	0.0 ... 100.0 %	0.1 %
		0.0 ... 900.0 mg/l	0.1 mg/l	0.0 ... 900.0 mg/l	0.1 mg/l
	Hazen 340 nm	0 ... 1,050 mg/l Pt/Co 1 mg/l	0 ... 1,050 mg/l Pt/Co 1 mg/l	0 ... 1,050 mg/l Pt/Co 1 mg/l	1 mg/l
	Hazen 350 nm	0 ... 1,150 mg/l Pt/Co 1 mg/l	0 ... 1,150 mg/l Pt/Co 1 mg/l	0 ... 1,150 mg/l Pt/Co 1 mg/l	1 mg/l
	Hazen 390 nm	0 ... 2,100 mg/l Pt/Co 1 mg/l	0 ... 2,100 mg/l Pt/Co 1 mg/l	0 ... 2,100 mg/l Pt/Co 1 mg/l	1 mg/l
	Hazen 445 nm	150 ... 10,000 mg/l Pt/Co 1 mg/l	150 ... 10,000 mg/l Pt/Co 1 mg/l	150 ... 10,000 mg/l Pt/Co 1 mg/l	1 mg/l
Hazen 455 nm	150 ... 10,000 mg/l Pt/Co 1 mg/l	150 ... 10,000 mg/l Pt/Co 1 mg/l	150 ... 10,000 mg/l Pt/Co 1 mg/l	1 mg/l	
Hazen 465 nm	150 ... 10,000 mg/l Pt/Co 1 mg/l	150 ... 10,000 mg/l Pt/Co 1 mg/l	150 ... 10,000 mg/l Pt/Co 1 mg/l	1 mg/l	
ISO 410 nm	0 ... 5,300 mg/l Pt/Co 1 mg/l	0 ... 5,300 mg/l Pt/Co 1 mg/l	0 ... 5,300 mg/l Pt/Co 1 mg/l	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 ± 50mg/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) in wastewater 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)