



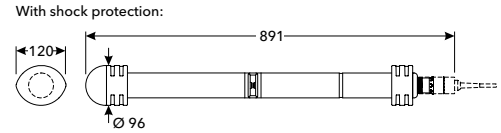
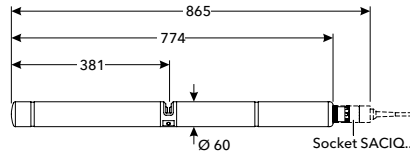
# Digital optical sensors for color, carbon, TSS and nitrate



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



Model	ColorVis 705 IQ	CarboVis® 705 IQ TS Co	NiCaVis® 705 IQ TS Co
<b>Measuring method</b>	Absorbance Measurement at selected wavelength	Spectral measurement in the UV-VIS range of 200-720 nm	
<b>Measuring gap</b> (optical layer thickness)	5 mm		
<b>Application</b> (optimized for)	Municipal wastewater:		
<b>Measuring range and Resolution</b>	<b>Effluent:</b>	<b>Effluent:</b>	<b>Effluent:</b>
	NO <sub>3</sub>		0.0 ... 250.0 mg/l      0.1 mg/l
	NO <sub>3</sub> -N		0.00 ... 50.00 mg/l      0.01 mg/l
	COD <sub>total</sub>	0.0 ... 800.0 mg/l      0.1 mg/l	0.0 ... 800.0 mg/l      0.1 mg/l
	COD <sub>dissolv</sub> *	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 <sub>254 total</sub>	0.0 ... 600.0 1/m      0.1 1/m	0.0 ... 600.0 1/m      0.1 1/m
	SAC <sub>254 dissolv</sub>	0.0 ... 600.0 1/m      0.1 1/m	0.0 ... 600.0 1/m      0.1 1/m
	UVT <sub>254 total</sub> *	0.0 ... 100.0 %      0.1 %	0.0 ... 100.0 %      0.1 %
	UVT <sub>254 dissolv</sub> *	0.0 ... 100.0 %      0.1 %	0.0 ... 100.0 %      0.1 %
	TSS	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
	Hazen 350 nm	0 ... 1,150 mg/l Pt/Co      1 mg/l	0 ... 1,150 mg/l Pt/Co      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
	Hazen 445 nm	150 ... 10,000 mg/l Pt/Co      1 mg/l	150 ... 10,000 mg/l Pt/Co      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
	Hazen 465 nm	150 ... 10,000 mg/l Pt/Co      1 mg/l	150 ... 10,000 mg/l Pt/Co      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
<b>Displayable Parameters</b>	Up to 3 at the same time	Up to 5 at the same time	Up to 5 at the same time
<b>Accuracy</b> (standard application muni. WWTP)	NO <sub>3</sub> -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		
<b>Turbidity compensation</b>	For color parameters: selectable		
<b>Flow rate</b>	≤ 3 m/s		
<b>Pressure Resistance</b>	Maximum 1 bar (incl. sensor connection cable)		
<b>Electrical connections</b>	2-wire shield cable with quick fastener to sensor		
<b>Electromagnetic Compatibility</b>	EN 61326, Class B, FCC Class A Intended for indispensable operation		
<b>Certifications</b>	CE, UKCA		
<b>Mechanical</b>	Housing: Titan Grade 2, PEEK; Window: Sapphire glass; Protection class: IP X8		
<b>Weight</b> (without cable)	Approx. 8.82 lb (4 kg)		
<b>Warranty</b>	2 years for defects in quality		

\* The UVT-254 value is standardized to 10 mm gap width.

Model	Description	Order No.
<b>ColorVis 705 IQ</b>	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
<b>CarboVis® 705 IQ TS Co</b>	Spectral UV-VIS probe for measuring color, COD <sub>total</sub> , COD <sub>dissolv</sub> , TOC, BOD, DOC, SAC <sub>total</sub> , SAC <sub>dissolv</sub> , UVT <sub>254</sub> and TSS in the drain/outlet with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings	481065
<b>NiCaVis® 705 IQ TS Co</b>	Like CarboVis® 705 IQ TS Co, but with nitrate	481066

All probes without connecting cable (order SACIQ separately)



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