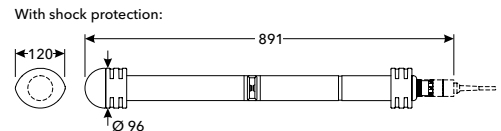
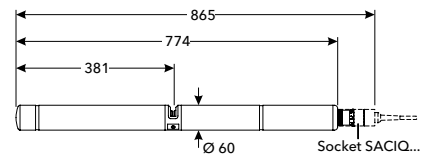




# Digital optical sensors for color, carbon, TSS and nitrate

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
<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	0.1 mg/l
NO <sub>3</sub> -N	0.00 ... 50.00 mg/l	0.01 mg/l	0.01 mg/l
COD <sub>total</sub>	0.0 ... 800.0 mg/l	0.1 mg/l	0.1 mg/l
COD <sub>dissolv</sub> *	0.0 ... 800.0 mg/l	0.1 mg/l	0.1 mg/l
TOC	0.0 ... 500.0 mg/l	0.1 mg/l	0.1 mg/l
DOC	0.0 ... 500.0 mg/l	0.1 mg/l	0.1 mg/l
BOD	0.0 ... 500.0 mg/l	0.1 mg/l	0.1 mg/l
SAC <sub>254 total</sub>	0.0 ... 600.0 1/m	0.1 1/m	0.1 1/m
SAC <sub>254 dissolv</sub>	0.0 ... 600.0 1/m	0.1 1/m	0.1 1/m
UVT <sub>254 total</sub> *	0.0 ... 100.0 %	0.1 %	0.1 %
UVT <sub>254 dissolv</sub> *	0.0 ... 100.0 %	0.1 %	0.1 %
TSS	0.0 ... 900.0 mg/l	0.1 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
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
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
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
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
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
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
<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		
<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		
<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>tot</sub> , COD <sub>diss</sub> , TOC, BOD, DOC, SAC <sub>tot</sub> , SAC <sub>diss</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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