



# Digital optical UV-VIS spectral sensors CarboVis®



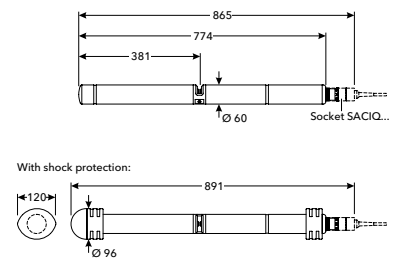
Spectral sensor with integrated ultrasonic cleaning for the chemical-free measurement of the organic load (COD/TOC/DOC/BOD/UVT/SAC) and suspended solids concentration (optional)

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

Model	CarboVis® 701 IQ	CarboVis® 705 IQ	CarboVis® 701 IQ TS	CarboVis® 705 IQ TS
<b>Measuring method</b>	Spectral Measurement in the UV-VIS Range (200–720 nm)			
<b>Measuring gap</b> (opt. width)	1 mm	5 mm	1 mm	5 mm
<b>Application</b> (optimized for)	Municipal wastewater:	Municipal wastewater:	Municipal wastewater:	Municipal wastewater:
<b>Measuring range and Resolution</b>	<b>Inlet:</b>		<b>Inlet:</b>	
	COD <sub>total</sub>	0 ... 20,000 mg/l 1 mg/l	COD <sub>total</sub>	0 ... 20,000 mg/l 1 mg/l
	COD <sub>dissolv</sub>	0 ... 12,500 mg/l 1 mg/l	COD <sub>dissolv</sub>	0 ... 12,500 mg/l 1 mg/l
	TOC	0 ... 20,000 mg/l 1 mg/l	TOC	0 ... 20,000 mg/l 1 mg/l
	DOC	0 ... 12,500 mg/l 1 mg/l	DOC	0 ... 12,500 mg/l 1 mg/l
	BOD	0 ... 8,000 mg/l 1 mg/l	BOD	0 ... 8,000 mg/l 1 mg/l
	SAC <sub>254 total</sub>	0.0 ... 5,000 1/m 1 1/m	SAC <sub>254 total</sub>	0.0 ... 5,000 1/m 1 1/m
	SAC <sub>254 dissolv</sub>	0.0 ... 3,000 1/m 1 1/m	SAC <sub>254 dissolv</sub>	0.0 ... 3,000 1/m 1 1/m
	UVT <sub>254 total</sub> *	0.0 ... 100.0 % 0.1 %	UVT <sub>254 total</sub> *	0.0 ... 100.0 % 0.1 %
	UVT <sub>254 dissolv</sub> *	0.0 ... 100.0 % 0.1 %	UVT <sub>254 dissolv</sub> *	0.0 ... 100.0 % 0.1 %
	TSS		TSS	0.00 ... 15.00 g/l 0.01 g/l
	<b>Aeration:</b>		<b>Aeration:</b>	
	COD <sub>dissolv</sub>	0 ... 12,500 mg/l 1 mg/l	COD <sub>dissolv</sub>	0 ... 12,500 mg/l 1 mg/l
	DOC	0 ... 12,500 mg/l 1 mg/l	DOC	0 ... 12,500 mg/l 1 mg/l
	SAC <sub>254 total</sub>	0.0 ... 5,000 1/m 1 1/m	SAC <sub>254 total</sub>	0.0 ... 5,000 1/m 1 1/m
	SAC <sub>254 dissolv</sub>	0.0 ... 3,000 1/m 1 1/m	SAC <sub>254 dissolv</sub>	0.0 ... 3,000 1/m 1 1/m
	UVT <sub>254 total</sub> *	0.0 ... 100.0 % 0.1 %	UVT <sub>254 total</sub> *	0.0 ... 100.0 % 0.1 %
	UVT <sub>254 dissolv</sub> *	0.0 ... 100.0 % 0.1 %	UVT <sub>254 dissolv</sub> *	0.0 ... 100.0 % 0.1 %
	TSS		TSS	0.00 ... 20.00 g/l 0.01 g/l
	<b>Effluent:</b>		<b>Effluent:</b>	
	COD <sub>total</sub>	0 ... 4,000 mg/l 1 mg/l	COD <sub>total</sub>	0 ... 4,000 mg/l 1 mg/l
	COD <sub>dissolv</sub>	0 ... 4,000 mg/l 1 mg/l	COD <sub>dissolv</sub>	0 ... 4,000 mg/l 1 mg/l
	TOC	0 ... 2,500 mg/l 1 mg/l	TOC	0 ... 2,500 mg/l 1 mg/l
	DOC	0 ... 2,500 mg/l 1 mg/l	DOC	0 ... 2,500 mg/l 1 mg/l
	BOD	0 ... 2,500 mg/l 1 mg/l	BOD	0 ... 2,500 mg/l 1 mg/l
	SAC <sub>254 total</sub>	0.0 ... 3,000 1/m 1 1/m	SAC <sub>254 total</sub>	0.0 ... 3,000 1/m 1 1/m
	SAC <sub>254 dissolv</sub>	0.0 ... 3,000 1/m 1 1/m	SAC <sub>254 dissolv</sub>	0.0 ... 3,000 1/m 1 1/m
	UVT <sub>254 total</sub> *	0.0 ... 100.0 % 0.1 %	UVT <sub>254 total</sub> *	0.0 ... 100.0 % 0.1 %
	UVT <sub>254 dissolv</sub> *	0.0 ... 100.0 % 0.1 %	UVT <sub>254 dissolv</sub> *	0.0 ... 100.0 % 0.1 %
	TSS		TSS	0 ... 4,500 mg/l 1 mg/l

<b>Displayable Parameters</b>	Up to 5 at the same time
<b>Calibration</b>	Factory calibrated, 1 or 2 point calibration; 24 point calibration optionally ( <i>please contact TechSupport</i> )
<b>Accuracy</b> (standard application muni. WWTP)	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
<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 68
<b>Weight</b> (without cable)	Approx. 8.82 lb (4 kg)
<b>Warranty</b>	2 years for defects in quality

CarboVis® 701 IQ (TS), CarboVis® 705 IQ (TS)



\* The UVT-254 value is standardized to 10 mm gap width. \*\* Check Datasheet D2.27

Model	Description	Order No.
<b>CarboVis® 701 IQ</b>	Spectral UV-VIS probe to measure COD <sub>tot</sub> , COD <sub>diss</sub> , TOC, BOD, DOC, SAC <sub>tot</sub> , SAC <sub>diss</sub> and UVT <sub>254</sub> in the inlet and the aeration with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings, without connecting cable (order SACIQ separately)	481048
<b>CarboVis® 705 IQ</b>	Like CarboVis® 701 IQ, but for the measurement in the drain	481050
<b>CarboVis® 701 IQ TS</b>	Like CarboVis® 701 IQ, but to measure suspended solids included	481049
<b>CarboVis® 705 IQ TS</b>	Like CarboVis® 701 IQ TS, but for the measurement in the drain	481051
<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 w. integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings**	481066



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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