



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

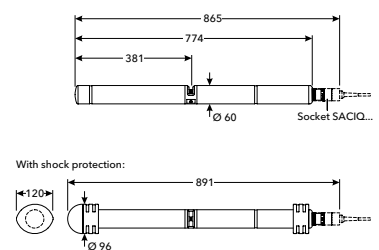


Technical Data

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

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 68
Weight (without cable)	Approx. 8.82 lb (4 kg)
Warranty	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.

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