

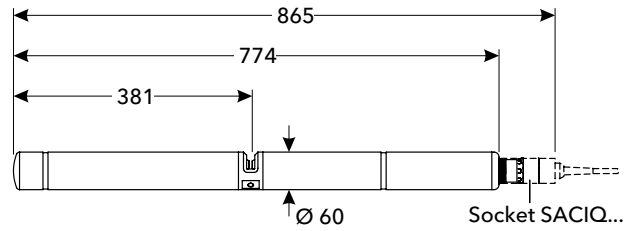


Digital optical UV VIS spectral probe NitraVis® for nitrate and suspended solids

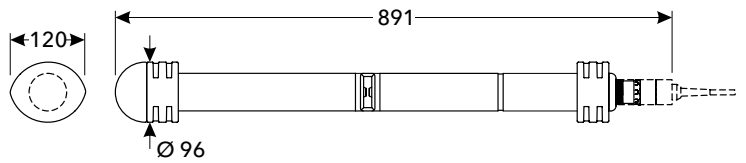
Sensor with integrated ultrasonic cleaning for the reagent-free measurement of nitrate and suspended solids (optional) – optimized for municipal wastewater treatment systems

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

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



With shock protection:



Technical Data

Model	NitraVis® 701 IQ	NitraVis® 705 IQ	NitraVis® 701 IQ TS	NitraVis® 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:			
Measuring range and Resolution	Inlet:		Inlet:	
	NO ₃	0.0 ... 300.0 mg/l 0.1 mg/l	NO ₃	0.0 ... 300.0 mg/l 0.1 mg/l
	NO ₃ -N	0.00 ... 60.00 mg/l 0.01 mg/l	NO ₃ -N	0.00 ... 60.00 mg/l 0.01 mg/l
	Aeration:		Aeration:	
	NO ₃	0.0 ... 300.0 mg/l 0.1 mg/l	NO ₃	0.0 ... 300.0 mg/l 0.1 mg/l
	NO ₃ -N	0.00 ... 60.00 mg/l 0.01 mg/l	NO ₃ -N	0.00 ... 60.00 mg/l 0.01 mg/l
	TSS	0.00 ... 15.00 g/l 0.01 g/l	TSS	0.00 ... 15.00 g/l 0.01 g/l
	Effluent:		Effluent:	
	NO ₃	0.0 ... 750.0 mg/l 0.1 mg/l	NO ₃	0.0 ... 750.0 mg/l 0.1 mg/l
	NO ₃ -N	0.0 ... 150.0 mg/l 0.1 mg/l	NO ₃ -N	0.0 ... 150.0 mg/l 0.1 mg/l
	TSS	0.0 ... 4,500 mg/l 1 mg/l	TSS	0.0 ... 900.0 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			

Model	Description	Order No.
NitraVis® 701 IQ	Spectral nitrate probe for the measurement in inlet/aeration with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings, without connecting cable (order SACIQ separately)	481044
NitraVis® 705 IQ	Like NitraVis® 701 IQ, but for measuring in the outlet	481046
NitraVis® 701 IQ TS	Spectral nitrate and suspended solids probe for measuring in the inlet/aeration with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings, without connecting cable (order SACIQ separately)	481045
NitraVis® 705 IQ TS	Like NitraVis® 701 IQ TS, but for measuring in the outlet	481047



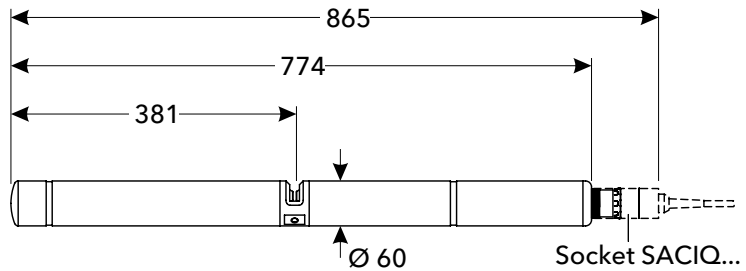
Digital optical sensors NiCaVis® for nitrate, carbon and suspended solids

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

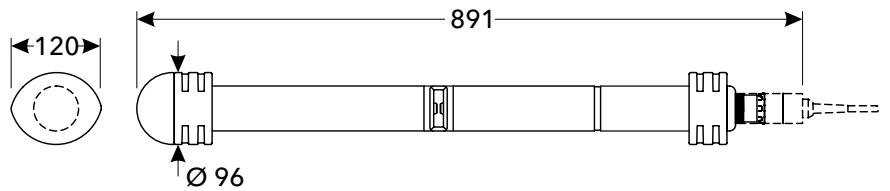
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NiCaVis® 705 IQ, NiCaVis® 705 IQ TS



With shock protection:



Technical Data

Model	NiCaVis® 705 IQ	NiCaVis® 705 IQ TS
Measuring method	Spectral Measurement in the UV-VIS Range (200 - 720 nm)	
Measuring gap (optical layer thickness)	5 mm	
Application (optimized for)	Municipal wastewater:	Municipal wastewater:
Measuring range and Resolution	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 0.0 ... 800.0 mg/l 0.1 mg/l TOC 0.0 ... 500.0 mg/l 0.1 mg/l DOC 0.0 ... 500.0 mg/l 0.1 mg/l BOD 0.0 ... 500.0 mg/l 0.1 mg/l SAC ₂₅₄ total 0.0 ... 600.0 1/m 0.1 1/m SAC ₂₅₄ dissolv 0.0 ... 600.0 1/m 0.1 1/m UVT ₂₅₄ total* 0.0 ... 100.0 % 0.1 % UVT ₂₅₄ dissolv* 0.0 ... 100.0 % 0.1 % TSS	Effluent: 0.0 ... 250.0 mg/l 0.1 mg/l 0.00 ... 50.00 mg/l 0.01 mg/l 0.0 ... 800.0 mg/l 0.1 mg/l 0.0 ... 500.0 mg/l 0.1 mg/l 0.0 ... 500.0 mg/l 0.1 mg/l 0.0 ... 500.0 mg/l 0.1 mg/l 0.0 ... 500.0 mg/l 0.1 mg/l 0.0 ... 600.0 1/m 0.1 1/m 0.0 ... 600.0 1/m 0.1 1/m 0.0 ... 100.0 % 0.1 % 0.0 ... 100.0 % 0.1 % 0.0 ... 900.0 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	

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

Model	Description	Order No.
NiCaVis® 705 IQ	Spectral UV-VIS probe for measuring nitrate, COD _{tot} , COD _{diss} , TOC, BOD, DOC, SAC _{tot} , SAC _{diss} , and UVT ₂₅₄ in the drain/outlet with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings, without connecting cable (order SACIQ separately)	481052
NiCaVis® 705 IQ TS	Like NiCaVis® 705 IQ, but with TS	481053



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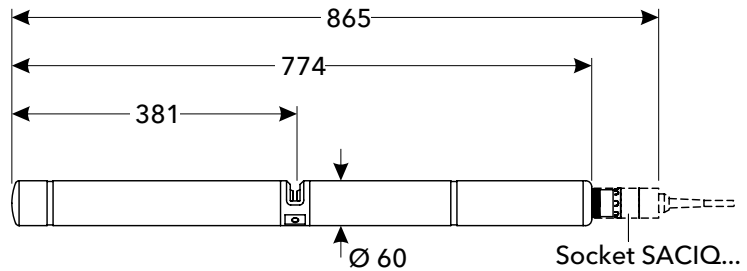
Digital optical UV spectral probe NitraVis® NI for nitrate and nitrite

Sensor with maintenance-free ultrasonic cleaning for measurement of nitrate and nitrite directly in the process - optimized for municipal wastewater treatment systems

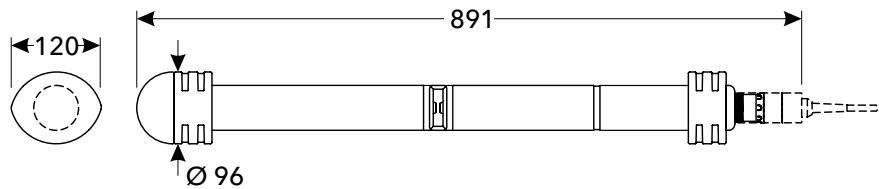
We would like to inform you about the application range on our website



NitraVis® 701 IQ NI, NitraVis® 705 IQ NI



With shock protection:



Technical Data

Model	NitraVis® 701 IQ NI	NitraVis® 705 IQ NI
Measuring method	Spectral Measurement in the UV Range (200-390 nm)	
Measuring gap (optical layer thickness)	1 mm	5 mm
Application (optimized for)	Municipal wastewater:	Municipal wastewater:
Measuring range and Resolution	Inlet & Aeration:	
	NO ₃ 0.0 ... 300.0 mg/l 0.1 mg/l NO ₃ -N 0.00 ... 60.00 mg/l 0.01 mg/l NO ₂ 0.0 ... 120.0 mg/l 0.1 mg/l NO ₂ -N 0.00 ... 30.00 mg/l 0.01 mg/l	
	Effluent:	Effluent:
	NO ₃ 0.0 ... 750.0 mg/l 0.1 mg/l NO ₃ -N 0.0 ... 150.0 mg/l 0.1 mg/l NO ₂ 0.0 ... 300.0 mg/l 0.1 mg/l NO ₂ -N 0.00 ... 75.00 mg/l 0.01 mg/l	0.0 ... 250.0 mg/l 0.1 mg/l 0.00 ... 50.00 mg/l 0.01 mg/l 0.0 ... 100.0 mg/l 0.1 mg/l 0.00 ... 25.00 mg/l 0.01 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	

Model	Description	Order No.
NitraVis® 701 IQ NI	Spectral nitrate and nitrite probe for measuring in the inlet/aeration with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings, without connecting cable (order SACIQ separately)	481056
NitraVis® 705 IQ NI	Like NitraVis®705 IQ NI, but for measuring in the drain/outlet	481057



Digital optical UV spectral probe NiCaVis® NI for nitrite, nitrate and carbon

UV probes with integrated ultrasonic cleaning for the reagent-free measurement of nitrate, nitrite and carbon parameters COD, DOC, TOC, BOD, SAC and UVT directly in the process

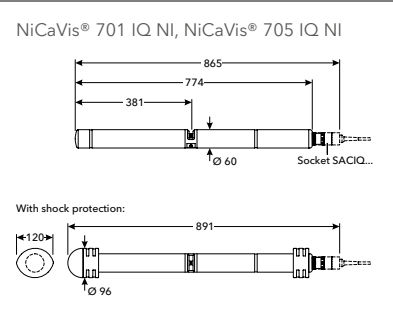
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Technical Data

Model	NiCaVis® 701 IQ NI	NiCaVis® 705 IQ NI
Measuring method	Spectral Measurement in the UV Range (200–390 nm)	
Measuring gap (optical layer thickness)	1 mm	5 mm
Application (optimized for)	Municipal wastewater:	Municipal wastewater:
Measuring range and Resolution	Inlet:	
	NO ₃ 0.0 ... 300.0 mg/l 0.1 mg/l NO ₃ -N 0.00 ... 60.00 mg/l 0.01 mg/l NO ₂ 0.0 ... 120.0 mg/l 0.1 mg/l NO ₂ -N 0.00 ... 30.00 mg/l 0.01 mg/l 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 ... 5,000 1/m 1 1/m UVT _{254 total} * 0 ... 100.0 % 0.1 %	
	Aeration:	
	NO ₃ 0.0 ... 300.0 mg/l 0.1 mg/l NO ₃ -N 0.00 ... 60.00 mg/l 0.01 mg/l NO ₂ 0.0 ... 120.0 mg/l 0.1 mg/l NO ₂ -N 0.00 ... 30.00 mg/l 0.01 mg/l COD _{dissolv} 0 ... 12,500 mg/l 1 mg/l DOC 0 ... 12,500 mg/l 1 mg/l SAC _{254 total} 0 ... 5,000 1/m 1 1/m UVT _{254 total} * 0 ... 100.0 % 0.1 %	
	Effluent:	Effluent:
	NO ₃ 0.0 ... 750.0 mg/l 0.1 mg/l NO ₃ -N 0.0 ... 150.0 mg/l 0.1 mg/l NO ₂ 0.0 ... 300.0 mg/l 0.1 mg/l NO ₂ -N 0.00 ... 75.00 mg/l 0.01 mg/l 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 ... 3.000 1/m 1 1/m UVT _{254 total} * 0 ... 100.0 % 0.1 %	0.0 ... 250.0 mg/l 0.1 mg/l 0.00 ... 50.00 mg/l 0.01 mg/l 0.0 ... 100.0 mg/l 0.1 mg/l 0.00 ... 25.00 mg/l 0.01 mg/l 0.0 ... 800.0 mg/l 1 mg/l 0.0 ... 800.0 mg/l 1 mg/l 0.0 ... 500.0 mg/l 1 mg/l 0.0 ... 500.0 mg/l 1 mg/l 0.0 ... 500.0 mg/l 1 mg/l 0.0 ... 600.0 1/m 1 1/m 0.0 ... 100.0 % 0.1 %

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



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

Model	Description	Order No.
NiCaVis® 701 IQ NI	Spectral UV sensor for the measurement of nitrite, nitrate, COD _{tot.} , COD _{diss.} , TOC, BOD, DOC, SAC _{tot.} , SAC _{diss.} , UVT ₂₅₄ in the inlet and in the aeration with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings, without connecting cable (order SACIQ separately)	481054
NiCaVis® 705 IQ NI	Like NiCaVis® 701 IQ NI, but for the measurement in the drain/outlet	481055



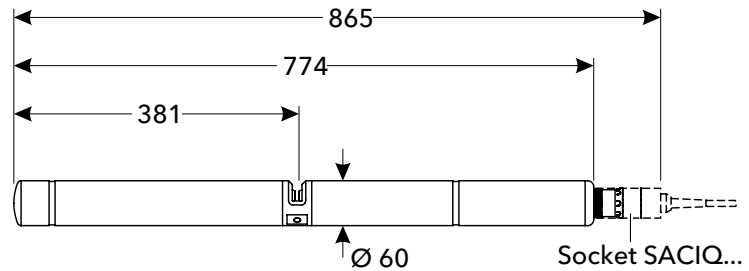
Optical nitrate sensor UV 70x IQ NO_x

Low-cost probe with integrated ultra-sonic cleaning for the maintenance-free and reagent-free measurement of nitrate

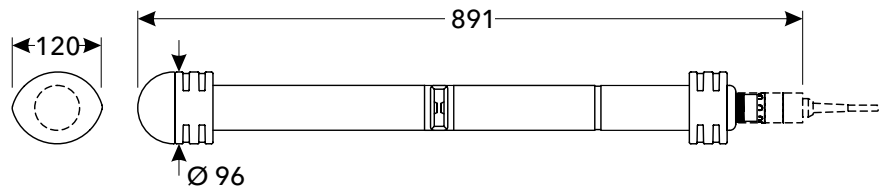
We would like to inform you about the application range on our website



UV 701 IQ NO_x, UV 705 IQ NO_x



With shock protection:



Technical Data

Model	UV 701 IQ NO _x	UV 705 IQ NO _x
Measuring method	UV Single Wavelengths Absorption Measurement	
Measuring gap (optical layer thickness)	1 mm	5 mm
Application (optimized for)	Municipal wastewater with a low proportion of industrial wastewater, waste water treatment plants, surface water	
Measuring range and Resolution	NO _x 0.0 ... 500.0 mg/l 0.1 mg/l NO _x -N 0.0 ... 100.0 mg/l 0.1 mg/l	0.0 ... 100.0 mg/l 0.1 mg/l 0.0 ... 20.0 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	

Model	Description	Order No.
UV 701 IQ NO _x	Optical nitrate (NO _x) sensor to measure higher concentration with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings, without connecting cable (order SACIQ separately)	481034
UV 705 IQ NO _x	Like UV 701 IQ NO _x , but to measure low concentrations	481035



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)

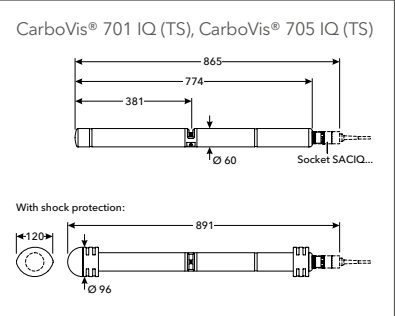
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Technical Data

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



* 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



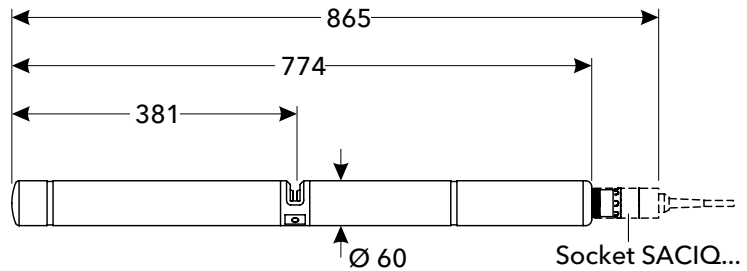
Optical SAC and UVT sensor UV 70x IQ SAC

Low-cost probe (integrated ultrasonic cleaning, turbidity compensation) for the maintenance-free and reagent-free SAC measurement according to DIN 38404 C3

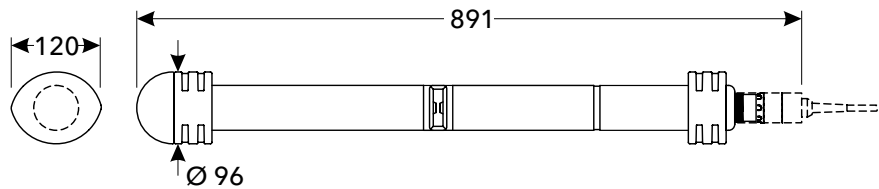
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UV 701 IQ SAC, UV 705 IQ SAC



With shock protection:



Technical Data

Model	UV 701 IQ SAC	UV 705 IQ SAC
Measuring method	UV-Absorptionsmessung 254 nm (Kompensation 550 nm)	
Measuring gap (optical layer thickness)	1 mm	5 mm
Application (optimized for)	Municipal wastewater with a low proportion of industrial wastewater, wastewater treatment plants, surface water	
Measuring range and Resolution	COD 0.0 ... 12,500 mg/l 1 mg/l TOC 0.0 ... 20,000 mg/l 1 mg/l DOC 0.0 ... 12,500 mg/l 1 mg/l BOD 0.0 ... 8,000 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 %	0.0 ... 800 mg/l 1 mg/l 0.0 ... 500.0 mg/l 0.1 mg/l 0.0 ... 500.0 mg/l 0.1 mg/l 0.0 ... 500.0 mg/l 0.1 mg/l 0.0 ... 600.0 1/m 0.1 1/m 0.0 ... 600.0 1/m 0.1 1/m 0.0 ... 100.0 % 0.1 % 0.0 ... 100.0 % 0.1 %
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	

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

Model	Description	Order No.
UV 701 IQ SAC	Optical SAC and UVT sensor (254 nm) to measure higher concentrations with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings, without connecting cable (order SACIQ separately)	481036
UV 705 IQ SAC	Like UV 701 IQ SAC, but to measure lower concentrations	481038



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