

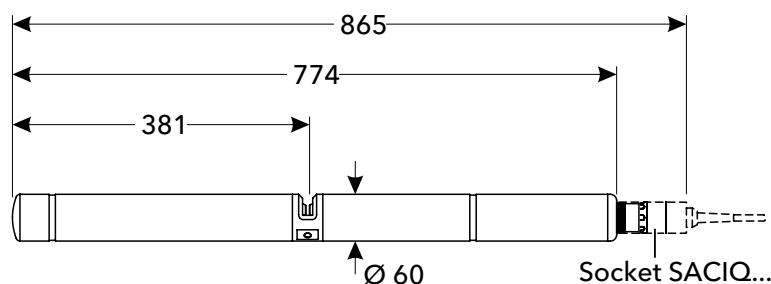


# Optical SAC and UVT sensor UV 70x IQ SAC

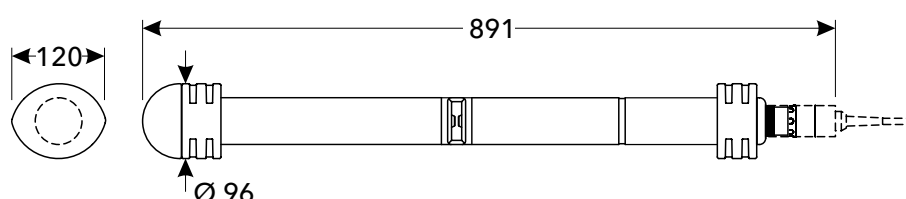
Low-cost probe (integrated ultrasonic cleaning, turbidity compensation) for the maintenance-free and reagent-free SAC measurement according to DIN 38404 C3

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

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 <sub>total</sub>	0.0 ... 20,000 mg/l 1 mg/l	0.0 ... 800 mg/l 0.1 mg/l
	COD <sub>dissolv</sub>	0.0 ... 12,500 mg/l 1 mg/l	0.0 ... 800 mg/l 0.1 mg/l
	TOC	0.0 ... 20,000 mg/l 1 mg/l	0.0 ... 500.0 mg/l 0.1 mg/l
	DOC	0.0 ... 12,500 mg/l 1 mg/l	0.0 ... 500.0 mg/l 0.1 mg/l
	BOD	0.0 ... 8,000 mg/l 1 mg/l	0.0 ... 500.0 mg/l 0.1 mg/l
	SAC <sub>254 total</sub>	0.0 ... 3,000 1/m 1 1/m	0.0 ... 600.0 1/m 0.1 1/m
	SAC <sub>254 dissolv</sub>	0.0 ... 3,000 1/m 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 %
	Accuracy (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	
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