

# SAC and Nitrate measurement

Reduce your maintenance to a minimum



a xylem brand

# Just ingenious

SAC and Nitrate measurement:  
Without servicing – without wiper

## Avoid a maintenance contract ...

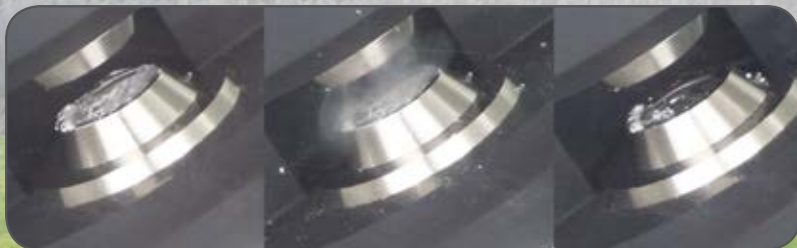
- No wear parts
- No seal replacement
- No risk of penetrating water
- No corrosion



## ... with the unique WTW ultrasonic cleaning system and Titanium housing

Completely integrated into the sensor, this cleaning system does entirely work without any moving parts. Thanks to the sealed housing- no axis, no seal replacement- the risk of penetrating water does not even occur. Thereby the ultrasonic cleaning is working efficiently and maintenance-free over the whole lifetime of the sensor.

Measuring even in corrosive media? No problem with this sensor. The high-tech materials Titanium and PEEK as well as the measurement windows made of sapphire glass are making the sensor particular resistant against external influences.



Cleaning effect of the WTW ultrasonic cleaning technology



# SAC measurement with the new UV 700 IQ SAC

The ideal sensor for:

- Detection of load changes in wastewater treatment plant influent
- Detection of load changes in wastewater treatment plant effluent
- Determination of organic loads in rivers and lakes

The spectral absorption coefficient/SAC at 254 nm is a sum parameter similar to COD for determination of organic loads of water. With the new sensor UV 700 IQ SAC this parameter can be detected directly without any chemicals. A reference measurement is performed for compensation of turbidity influences.

Technical Data

Model	UV 701 IQ SAC	UV 705 IQ SAC
measuring range	SAC: 0.0-3000 m <sup>-1</sup> UVT: 0.0-100.0%	SAC: 0.0-600.0 m <sup>-1</sup> UVT: 0.0-100.0%
Resolution	SAC: 1 m <sup>-1</sup> UVT: 0.1%	SAC: 0.1 m <sup>-1</sup> UVT: 0.1%
Measuring method	UV-absorption measurement (254 nm)	
Compensation	Turbidity compensation	
Cleaning	WTW ultrasonic cleaning system	
Material	Titanium, PEEK	
IQ SENSOR NET System	182 and 2020	

Model	Order No.
UV 701 IQ SAC	481 036
UV 705 IQ SAC	481 038

# Nitrate measurement with the new UV 700 IQ NOx

The ideal sensor for:

- Regulation of nitrification/denitrification
- Effluent control
- Measurement of surface water

This new sensor measures Nitrate at a wavelength below 250 nm. Influences of turbidity and organic matter are compensated by a reference measurement.

Technical Data

Model	UV 701 IQ NOx	UV 705 IQ NOx
Measuring range	0.0 - 100.0 mg/l NO <sub>2+3</sub> -N	0.0 - 20.0 mg/l NO <sub>2+3</sub> -N
Resolution	0.1 mg/l NO <sub>2+3</sub> -N	0.1 mg/l NO <sub>2+3</sub> -N
Measuring method	UV-absorption measurement	
Compensation	Turbidity compensation	
Cleaning	WTW ultrasonic cleaning system	
Material	Titanium, PEEK	
IQ SENSOR NET System	182 and 2020	

Model	Order No.
UV 701 IQ NOx	481 034
UV 705 IQ NOx	481 035



for Systems 2020 and 282/284\*



\*With the IQ SENSOR NET several additional parameters can be measured - request our free catalog "On-line Instrumentation" or visit our website [www.WTW.com/en/iqsn](http://www.WTW.com/en/iqsn) (For convenience use our QR code).

# What can Xylem do for you?

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services, and agricultural settings. With its October 2016 acquisition of Sensus, Xylem added smart metering, network technologies and advanced data analytics for water, gas and electric utilities to its portfolio of solutions. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

**For more information on how Xylem can help you, go to [www.xylem.com](http://www.xylem.com)**



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