



SAC/UVT and Nitrate measurement

REDUCE MAINTENANCE TO A MINIMUM



a xylem brand

Just ingenious

SAC/UVT and Nitrate measurement:
Without servicing – without wiper

Avoid a maintenance contract ...

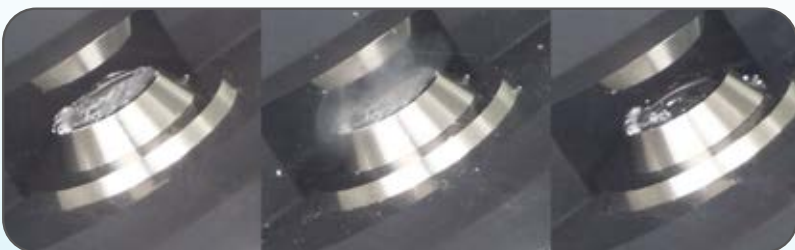
- No wear parts
- No seal replacement
- No corrosion

... 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/UVT measurement

UV 700 IQ SAC – The ideal sensor for:

-  Detection of load changes in
 -  wastewater treatment plant influent
 -  wastewater treatment plant effluent
-  Determination of organic loads in rivers and lakes
-  Monitoring of UVT in disinfection plants
 -  in drinking water
 -  in wastewater applications

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 ⁻¹ UVT: 0.0-100.0%	SAC: 0.0-600.0 m ⁻¹ UVT: 0.0-100.0%
Resolution	SAC: 1 m ⁻¹ UVT: 0.1%	SAC: 0.1 m ⁻¹ 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	282/284 and 2020	







D2.16

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

Nitrate measurement

UV 700 IQ NO_x – The ideal sensor for:

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

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 NO _x	UV 705 IQ NO _x
Measuring range	0.0 - 100.0 mg/l NO ₂₊₃ -N	0.0 - 20.0 mg/l NO ₂₊₃ -N
Resolution	0.1 mg/l NO ₂₊₃ -N	0.1 mg/l NO ₂₊₃ -N
Measuring method	UV-absorption measurement	
Compensation	Turbidity compensation	
Cleaning	WTW ultrasonic cleaning system	
Material	Titanium, PEEK	
IQ SENSOR NET System	282/284 and 2020	



D2.14

Model	Order No.
UV 701 IQ NO _x	481 034
UV 705 IQ NO _x	481 035



for Systems 2020 and 282/284*



*With the IQ SENSOR NET several additional parameters can be measured - request our free catalog "Process Instrumentation" or visit our website www.iq-sensor.net
(For convenience use our QR code).

Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

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 settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. 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



Regional Sales Offices

UK: Xylem Analytics UK Limited Tel +44 1462 673581 salesuk@xylem.com www.xylemanalytics.co.uk	Asia: Xylem Analytics Japan Tel +81 (0)44-222-0009 ysijapan.support@xylem.com www.xylem-analytics.jp	Middle East & Africa: Xylem Analytics Middle East & Africa Tel +971 4 806 1000 Info.MEA@xylem.com www.xylemanalytics.com
Australia: Xylem Analytics Australia Tel +61 1300 995362 salesAus@xylem.com www.xylem-analytics.com.au	China: Xylem Analytics (Beijing) Co., Ltd Tel +86 10 5785 2266 Xylemanalytics.China@xylem.com www.xylemanalytics.cn	France: Xylem Analytics France Tel + 33 (0)1 46 95 32 81 XAFcIalFR@xylem.com www.xylemanalytics.com

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 [xylemanalyticsgermany](https://www.xylemanalyticsgermany.com)

xylem
Let's Solve Water

Xylem Analytics Germany Sales GmbH & Co. KG, WTW
Am Achalaich 11
82362 Weilheim, Germany
Tel +49 881 1830
Fax +49 881 183-420
Info.WTW@xylem.com
www.xylemanalytics.com