

SAC and Nitrate measurement

Reduce your maintenance to a minimum

Now also available
for our brandnew
system 282/284



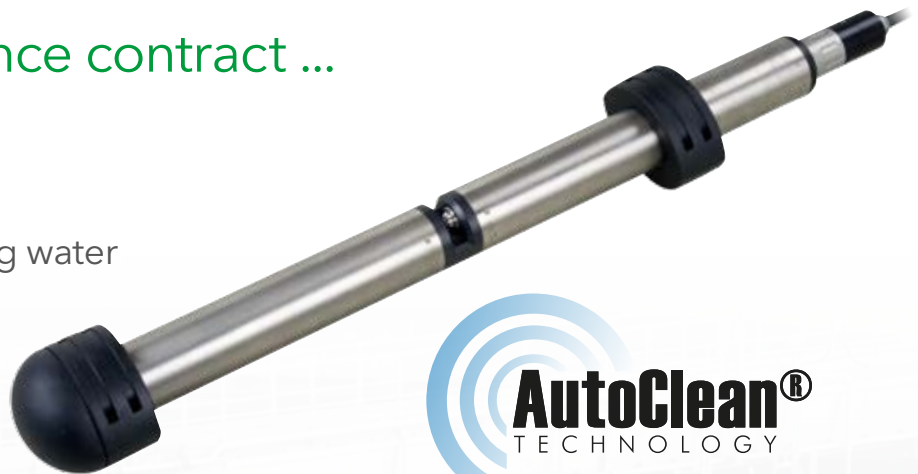
a xylem brand

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 ⁻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 | 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 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 | 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 (For convenience use our QR code).

What can Xylem do for you?

We're a global team unified in a common purpose: creating innovative solutions to meet our world's water needs. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. We move, treat, analyze, and return water to the environment, and we help people use water efficiently, in their homes, buildings, factories and farms. 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, backed by a legacy of innovation.

For more information on how Xylem can help you, go to www.xylem.com



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