

Process Instrumentation

D.O. \cdot pH/ORP \cdot CONDUCTIVITY \cdot TURBIDITY/TSS \cdot NH₄/NO₃/NO₂ \cdot COD/BOD/TOC/DOC/SAC/UVT · PHOSPHATE · SLUDGE LEVEL · CHLORINE · COLOR











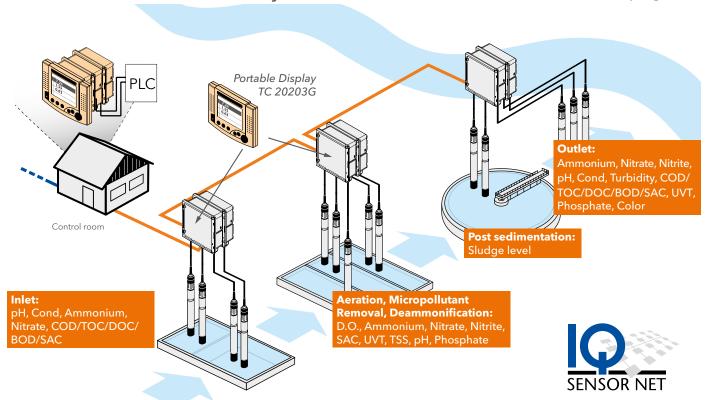


IQ SENSOR NET -

the System for Wastewater Treatment Plants, Industrial Applications and much more

① IQ Sensor Network: System 2020

see from page 52



② Outstanding among the compact Controllers: System 282/284

see from page 56

3 The Single Parameter Measuring Point: System 281

see from page 58

Oxygen measurement with FDO® 700 IQ

- Calibration free sensor
- Reduces energy and operational
- Long lifetime of membrane cap
- Precise results without drift see page 11

Ammonium & Nitrate measurement with ISE sensors (e.g. VARiON® Plus 700 IQ)

- Easy and fast matrix adjustment
- Up to 2,000 mg/l NH₄
- Extremely robust electrodes
- Compensation with K and Cl see page 30

Reagent-free COD measurement with NiCaVis® 701/705 IQ NI

- No reagent consumption
- Integrated ultrasonic cleaning
- Extremely low in maintenance
- No wear parts
- Additionally BOD, TOC, DOC, SAC, UVT, Nitrate and Nitrite see page 38

All measurement parameters at a glance

see catalog page	12	11	15	20	24	25	30	30	30	34	34	38	38	32	38	32	43	41	34	45
										()		(co)	(co)	I) SF						
Sensors	~									NitraVis® 701/705 IQ (TS)	NitraVis® 701/705 IQ NI	CarboVis® 701/705 IQ (TS/Co)	NiCaVis® 705 IQ (TS/SF/Co)	NiCaVis® 701/705 IQ (NI) SF	()	×				
	TriOxmatic® 700 IQ	1 0	<u>a</u>	<u>o</u>	ā	a	<u>0</u>	₫	₫	705	705	705	IQ (T	/705	UV 701/705 IQ SAC	UV 701/705 IQ NOx				a
	ic® 7	0//0	® 700	® 70(® 700	700	t® 70	700	® 700	701/	701/	701/	705	701,	705 10	,05 IC	a	PO ₄	FH ₄	7051
Parameters	xmat	FDO® 700/701 IQ	SensoLyt® 700 IQ	TetraCon® 700 IQ	VisoTurb® 700 IQ	ViSolid® 700 IQ	AmmoLyt® 700 IQ	NitraLyt® 700 IQ	VARiON® 700 IQ	aVis®	aVis®	ooVis®	aVis®	aVis®	701/7	701/7	IFL 700 IQ	Alyza IQ PO ₄	Alyza IQNH₄	ColorVis 705 IQ
	TriC	FDC	Sen	Tetr	Visc	ViSc	Am	Nit	VAF	Nit	Nitr	Cark	Nio	Nic	2	A	료	Aly	Aly	S
Usable with System 2020																				
Usable with System 282/284																				
Usable with System 281																				
Power consumption [W]	0,2	0,7	0,2	0,2	1,5	1,5	0,2	0,2	0,2	8,0°	8,0°	8,0°	8,0°	8,0°	8,0°	8,0°	5,5°	**	**	8,0°
Parameter																				
Temperature																				
Dissolved Oxygen (electrochem.)																				
Dissolved Oxygen (optical)																				
рН																				
ORP																				
Conductivity																				
Salinity																				
TDS																				
Turbidity (optical)																				
TSS (optical)																				
Ammonium (ion-selective)																				
Nitrate (ion-selective)																				
Nitrate (optical/spectral)																_ †				
Nitrite (optical/spectral)														•		•				
Potassium (ion-selective)																				
Chloride (ion-selective)																				
COD (optical/spectral)														•						
BOD (optical/spectral)																				
TOC (optical/spectral)														•						
DOC (optical/spectral)														•						
SAC (optical/spectral)															•					
UVT (optical/spectral)															•					
Sludge Level																				
Orthophosphate (optical/wet chem.)																				
Ammonium (optical/wet chem.)																				
Color																				

Systems in Detail

Module	see catalog page	53	53	54	54	54	54	55	55	54	54	54	52	55	55	55	55	66	66	55
Module																		Ç	Ç	
Module																		30 VA	15 VA	
Usable with System 2020 Usable with System 282/284 Available IOSN connectors 3 3 2 2 2 2 2 2 2 4 4 3 2 2 2 2 2 2 2 2												(E	(")					1.0)x - 1	
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Usable with System 2020 Usable with System 282/284 Available IQSN connectors 3 3 3 2 2 2 2 2 2 2 4 4 3 3 2 2 2 2 2 2		MIQ/	MIQ/	MIQ	MIQ/	MIQ	MIQ/	MIQ/	MIQ/	MIQ/	MIQ.	MIQ	MIQ	Termi	MIQ/	MIQ/	MIQ/	Clear	Clear	MIQ/
Available IQSN connectors	Usable with System 2020																			
Electrical current [W]	Usable with System 282/284																			
Power supply 100240 V AC	Available IQSN connectors	3	3	2	2	2	2	2	2	4	4	3	X	X	2	2	2	X	X	2
Power supply 100240 V AC	Electrical current [W]	**	**	3.0	1.5	3.0	0.2	3.0	3.0	0.0	0.2	0.6	3.0	3.0	2.5	3.0	3.0	***	***	2.5
100240 VAC 24 V AC/DC 24 V AC/DC Analog outputs/relays 6 x 0/420 mA 6 x relays 3 x 0/420 mA, 3 x relays Analog inputs 2 x 0/420 mA MODBUS PROFIBUS USB Ethernet/LAN (Profinet, Ethernet/Pt Modbus TCP) Intra-system connectivity 4 available IQSN connectors 4 available IQSN connectors Radio transmission Controller Controller/Terminal (with display) Terminal (with display) Compensation Air-pressure compensation for D.O. measurement Compressed air cleaning Air compressor 230 VAC Air compressor 215 VAC	Module features																			
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	Valve for automatic cleaning																			



Dr. Robert Reining, Xylem Analytics Germany Managing Director and Site Leader Mainz and Weilheim

Publisher



Xylem Analytics Germany Sales GmbH & Co. KG, WTW Am Achalaich 11 82362 Weilheim Germany

Phone +49 881 1830 Fax +49 881 183-420 Info.WTW@xylem.com www.xylemanalytics.com

WTW a Brand, rich in Tradition

Since 2011, WTW is part of the Xylem Group, which operates worldwide in its core business of water. As a brand of Xylem Analytics Germany GmbH and being rich in tradition, we see our task in using our expertise and innovative technologies to find solutions for our customer's measurement tasks.

For many years the IQ Sensor Net has been a technology leader in wastewater quality measurement. It can be used both as single on-site measurement and in a network. The innovative digital sensors represent the heart of the system. As a result the IQ Sensor Net is the most flexible digital multi-parameter system for up to 20 sensors. With the new MIQ/MC3 controller family with integrated USB and LAN interfaces, the IQ Sensor Net System can be connected to internet communication via TCP/IP technology. The Alyza IQ Analyzer family augments the System with wet chemical analyzers for the measurement of orthophosphate or ammonium. They provide extremely low reagent consumption and produce very small amounts of waste.

This as well as our entire product portfolio of process instrumentation can be found on the following pages. If you need any information or solution on laboratory equipment of the brand WTW or other Xylem brands, don't hesitate to contact us or take a look on our new website www.xylemanalytics.com.

With more than 75 years of experience, the WTW brand has established a first-class reputation through its exemplary customer-support. Our Customer Care Center is ready to find an individual solution for any customer's measurement tasks. WTW's comprehensive application collection, in combination with expert application specialists, ensures fast solutions for technical challenges. The dealer and service network extends around the world.

As it always has been the largest percentage of our products are produced at our facility in Weilheim in Upper Bavaria, south of Munich, by nearly 400 employees - quality-measurement technology with expert support, "Made in Germany".

You can find out more about Xylem on our website: www.xylem.com



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IP-Code (International Protection Code)

Protection types acc. to DIN EN 60529

1st number:

instrument protected against entry of solid bodies

0 not protected

1 with $\emptyset \ge 50 \text{ mm}$

2 with $\emptyset \ge 12 \text{ mm}$

3 with \emptyset ≥ 2.5 mm

4 with $\emptyset \ge 1.0 \text{ mm}$

5 dust protected*

6 dustproof

* limited amounts of dust may enter under certain conditions

2nd number:

protection against water

- 0 not protected
- 1 vertically falling drops
- 2 drops of water at angles of up to 15° to vertical
- 3 drops of water at angles of up to 60° to vertical
- 4 splashes from any direction
- 5 jets of water from any direction
- **6** strong jets of water from any direction
- 7 intermittent submersion (max. 1 m deep, 30 min)
- 8 permanent submersion (conditions must be specified)

If numbers 7 and 8 are fulfilled this does not necessarily mean that numbers 5 or 6 are also fulfilled.









These test marks indicate that **he national safety standards** applicable in the USA and Canada have been complied with.

Our certification partners, UL (Underwriter Laboratories) and ITS (Intertek Testing Services), are officially authorized testing centers in both countries.





Warranty for perfect operation of instruments supplied by us. Faults resulting from natural wear and tear, improper use/handling or from alterations/repairs carried out by the customer or third parties to the items supplied are excluded from this warranty.



This test mark indicates that the product complies with the applicable EU and UK directives.

For WTW products these are essentially:

CE: Directive 2014/35/EU

UK: Electrical Equipment (Safety) Regulations 2016

Electrical equipment for use within particular voltage limits (low-voltage directive/product safety)

CE: Directive 2014/30/EU

UK: Electromagnetic Compatibility Regulations 2016 Electromagnetic compatibility (EMC directive)

CE: Directive 2011/65/EU

UK: The restriction of the Use of Certain Hazardous **Substances in Electrical and Electronic Equipment Regulations 2012**

Restriction Of Harzardous Substances (ROHS)

CE: Directive 2014/53/EU

UK: Radio Equipment Regulations 2017

Radio Equipment Directive (RED)



Reference to Data sheets at the end of the catalog or separately available



Typical Applications

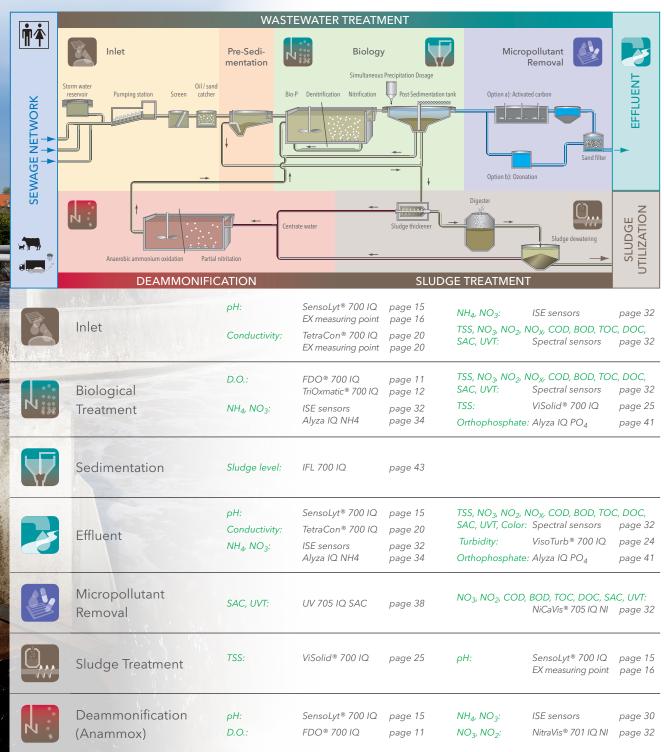
Process Instrumentation



Wastewater (municipal wwtp)



see also www.xylemanalytics.com/en/applications/wastewater



Typical Applications



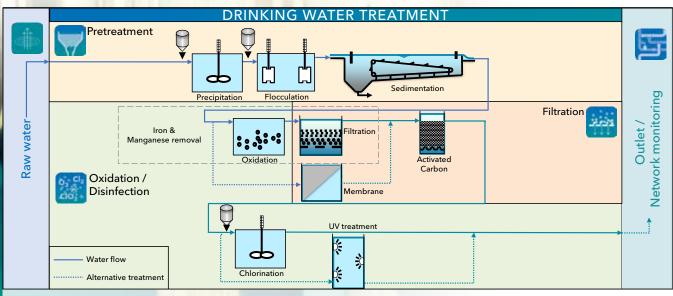
Process Instrumentation



Drinking Water



see also www.xylemanalytics.com/en/applications/drinking-water

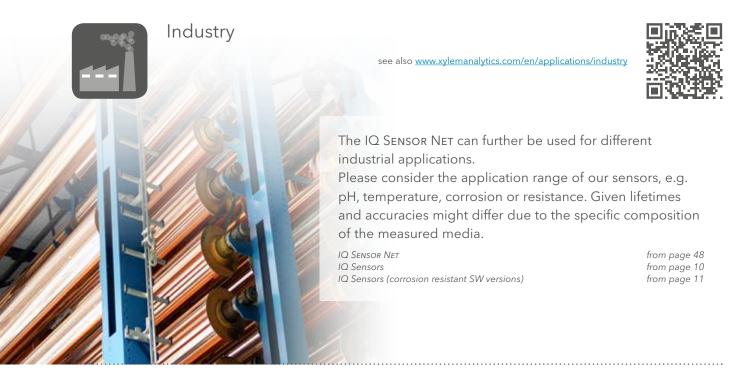


	Raw water (Groundwater, Surface waters)	pH: Conductivity:	SensoLyt® DW (A) SenTix® ML 70 TetraCon® 700 IQ LR ML LRD 325	page 16 page 17 page 20 page 21 page 20	Oxygen: Turbidity: Temperatur:	FDO® 700 IQ VisoTurb® 700 IQ Turb PLUS 2000 available in several sensors	page 11 page 24 page 27 other
	Pretreatment (Precipitation, Flocculation, Sedimentation)	Turbidity:	VisoTurb® 700 IQ Turb PLUS 2000	page 24 page 27	SAC:	UV 705 IQ SAC	page 32
3.04	Filtration (Matrix filter, Membrane filter, Activated Carbon)	Turbidity:	VisoTurb® 700 IQ Turb PLUS 2000	page 24 page 27			
O ₃ Cl ₂	Oxidation/Disinfection (Chlorination, Ozonation, UV treatment, iron and manganese removal)	Chlorine: UVT: Turbidity:	Chlorine 3017M FCML 412 N UV 705 IQ SAC Turb PLUS 2000	page 47 page 47 page 32 page 27	pH: Oxygen: Temperatur:	SensoLyt® DW (A) SenTix® ML 70 FDO® 700 IQ available in several sensors	page 16 page 17 page 11 other
	Outlet & Network monitoring	Turbidity: pH: Conductivity:	Turb PLUS 2000 SensoLyt® DW (A) SenTix® ML 70 TetraCon® 700 IQ LR ML LRD 01 LRD 325	page 27 page 16 page 17 page 20 page 21 page 21 page 20	Oxygen: Chlorine: ORP: Temperature:	FDO® 700 IQ Chlorine 3017M FCML 412 N SensoLyt® Pt (A) SenTix® ML ORP available in several sensors	page 11 page 47 page 47 page 16 page 17 other

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Typical Applications

Process Instrumentation





Water

see also www.xylemanalytics.com/en/applications/environmental-monitoring-surface-water





Typical Applications Process Instrumentation



Fish Farming

see also www.xylemanalytics.com/en/applications/aquaculture





	Freshwater	Saltwater
pH (incl. temp.)	SensoLyt® 700 IQ page 15	SensoLyt® 700 IQ SW page 15
Carbon	Spectral sensors page 38	Spectral sensors page 38
D.O. (incl. temp.)	FDO® 700 IQ (protective cap MSK FDO® against fish bites must be ordered separately) page 11 TriOxmatic® 700 IQ page 12	FDO® 700 IQ SW (protective cap MSK FDO® against fish bites included) page 11 TriOxmatic® 700 IQ SW page 12
Salinity (incl. temp.	TetraCon® 700 IQ page 20	TetraCon® 700 IQ SW page 19
TSS/Turbidity	ViSolid® 700 IQ page 25	ViSolid® 700 IQ SW page 25
	VisoTurb® 700 IQ page 24	VisoTurb® 700 IQ SW page 24

