



Product Details 2022

PROCESS INSTRUMENTATION
FOR WASTEWATER, SURFACE WATER, DRINKING WATER AND MORE



EFFECTIVE FROM JANUARY 1ST TO DECEMBER 31ST, 2022



a xylem brand

1/2022

Subject to change!**Xylem Analytics Germany Sales GmbH & Co. KG, WTW**

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*Price List for WTW Process Instrumentation - English - all prices without local taxes.***www.xylemanalytics.com**

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822244	RH 120-20	OK 34, 46
822248	RH 240-0.5	OK 34, 46
822249	RH 240-1	OK 34, 46
822250	RH 240-2	OK 34, 46
822251	RH 240-5	OK 34, 46
822252	RH 240-10	OK 34, 46
822253	RH 240-15	OK 34, 46

Order No.	Model	Pricelist page	
822254	RH 240-20	OK	34, 46
825010	Alyza IQ NH4-110	OK	33, 54
825011	Alyza IQ NH4-111	OK	33, 54
825012	Alyza IQ NH4-112	OK	33, 54
825510	Alyza IQ PO4-110	OK	45, 56
825511	Alyza IQ PO4-111	OK	45, 56
825512	Alyza IQ PO4-112	OK	45, 56
825520	Alyza IQ PO4-120	OK	45, 56
825521	Alyza IQ PO4-121	OK	45, 56
825522	Alyza IQ PO4-122	OK	45, 56
827000	MPV-1	OK	34, 46
827100	TubingSet NH4	OK	34
827101	TubingSet PO4	OK	46
827170	Syringe Pump Set	OK	34, 46
827180	Overflow Vessel	OK	35, 47
827185	Filtration Pump	OK	35, 47
827186	Check valve	OK	35, 47
827187	WF Set	OK	35, 47
827188	PurCon ACS	OK	35, 47
827190	Conversion kit PO4 MB1	OK	47
827191	Conversion kit PO4 MB2	OK	47
827500	R-NH4/1-1A	OK	34
827501	R-NH4/1-1B	OK	34
827502	R-NH4/1-1C	OK	34
827503	R-NH4/1-2A	OK	34
827504	R-NH4/1-2B	OK	34
827505	R-NH4/1-2C	OK	34
827510	S-NH4/1-0.0	OK	34
827511	S-NH4/1-1.0	OK	34
827512	S-NH4/1-4.0	OK	34
827513	S-NH4/1-16.0	OK	34
827518	C-NH4/1-1	OK	34
827519	C-NH4/1-2	OK	34
827520	R-PO4/1-1A	OK	46
827521	R-PO4/1-1B	OK	46
827522	R-PO4/1-2A	OK	46
827523	R-PO4/1-2B	OK	46
827526	S-PO4/1-0.0	OK	46
827527	S-PO4/1-1.0	OK	46
827528	S-PO4/1-10.0	OK	46
827529	S-PO4/1-40.0	OK	46
827533	C-PO4/1-1	OK	46
827540	R-Set NH4/1-1	OK	34
827541	R-Set NH4/1-2	OK	34
827545	SC-Set NH4/1-1_0/1	OK	34
827546	SC-Set NH4/1-1_0/4	OK	34
827547	SC-Set NH4/1-2_0/16	OK	34
827550	R-Set PO4/1-1	OK	46
827551	R-Set PO4/1-2	OK	46
827555	SC-Set PO4/1-1_0/1	OK	46
827556	SC-Set PO4/1-1_0/10	OK	46
827557	SC-Set PO4/1-2_10/40	OK	46
830860	VB 105	OH	91
850007	P 105	OF	91
850010	FGT 615-2 = P102/1	OF	91
850019	PZN 30	OF	91
850110	BS-P102	OF	91
850115	ADA-PS	OX	91
900107	CH	OH	32, 113
900111	CH/Epac	OX	113
902888	ADA/D-SUB	OD	61, 70
902890	ADA/E	OD	70

Consumables, Reagents and Standards

pH-/ORP electrodes



For use in wastewater, drinking water, industry
see pages 16, 53, 77, 86, 89, 123

Caps optical D.O. sensors



Spare caps for calibration free FDO® sensors
see page 11

ISE electrodes



Reference and measuring electrodes for NH_4 , NO_3 , K and Cl ISE sensors
see page 31

Electrochemical D.O. sensor maintenance sets



Membrane heads and electrolytes for TriOxmatic® sensors
see page 12

pH buffers



For calibration of pH electrodes
see pages 17, 78, 124

Spectral sensors test standards, cleaning accessories



For verification of spectral sensors
see page 33

ISE test standards



For verification of ISE electrodes
see page 31

Turbidity and TSS sensors test standards



For verification of VisoTurb® and ViSolid® sensors
see page 26

Alyza IQ



Consumables Alyza IQ
MultiPort valve, tubes, etc.
see pages 34, 46



Chemicals Alyza IQ NH_4
Calibration standards, reagents and cleaning solutions
see page 34



Chemicals Alyza IQ PO_4
Calibration standards, reagents and cleaning solutions
see page 46

Drinking water sensors



pH buffers
For calibration of pH electrodes
see pages 17, 78, 124



Conductivity standards
For calibration of conductivity cells electrodes
see page 124



Chlorine sensors maintenance sets
Exchange caps and electrolyte for FCML und TCML
see page 123



D.O. sensors maintenance sets
Membrane heads and electrolyte for Oxi ML 41
see page 124

Drinking water analyzers



Chlorine 3017M and 3000
Reagents and spares
For measuring free and total Chlorine
see page 125



Turb (PLUS) 2000 turb. analyzer
calibration kits and spares
Traceable to Formazine
see page 124

IQ SENSOR NET - all measurement parameters at a glance

Sensors	Parameter															
	TriOxmatic® 700/701/702 IQ (SW)	FDO® 700/701 IQ (SW)	Sensolyt® 700 IQ (SW)	TetraCon® 700 IQ (SW)	VisoTurb® 700 IQ (SW)	ViSolid® 700 IQ	Ammolyt® Plus 700 IQ	Nitralyt® Plus 700 IQ	VARION® Plus 700 IQ	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	UV 701/705 IQ SAC	UV 701/705 IQ NOx
Usable with System 2020 and 282/284	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Usable with mit 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*
Parameter																
Temperature	●	●	●	●			●	●	●							
Diss. Oxygen (electrochem.)	●															
Diss. Oxygen (optical)		●														
pH			●													
ORP			●													
Conductivity				●												
Salinity				●												
TDS				●												
Turbidity (optical)					●											
TSS (optical)					●	●				●		●	●			
Ammonium (ion-selective)							●		●							
Ammonium (wet chemical)																●
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 (opt./wet chem.)																●
Color (optical/spectral)												●	●			●

* When operating with System 282/284, the average power consumption can be used. Details see operating manual System 282/284

** Power supply: Alyza IQ PO₄ provides 10 W

† NO₂-N is included in the measurement result

Dissolved Oxygen

Sensors Parameter	TriOxmatic® 700/701/702 IQ (SW)	FDO® 700/701 IQ (SW)	Sensolyt® 700 IQ (SW)	TetraCon® 700 IQ (SW)	VisoTurb® 700 IQ (SW)	ViSolid® 700 IQ	Ammolyt® Plus 700 IQ	Nitralyt® Plus 700 IQ	VARiON® Plus 700 IQ	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	UV 701/705 IQ SAC	UV 701/705 IQ NOx	IFL 700 IQ	ColorVis 705 IQ	Alyza IQ PO ₄	Alyza IQ NH ₄
Usable with System 2020 and 282/284	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Usable with mit 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	●	●	●	●			●	●	●											
Diss. Oxygen (electrochem.)	●																			
Diss. Oxygen (optical)		●																		

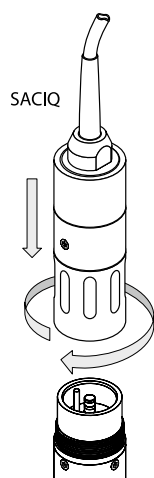
* When operating with System 282/284, the average power consumption can be used. Details see operating manual System 282/284

** Power supply: Alyza IQ PO₄ provides 10 W

Model	Description	Order No.	
Optical D.O. Sensor FDO® 700 IQ			
FDO 700 IQ	Digital calibration free optical D.O. sensor (universal use). Optimized for monitoring/controlling the O ₂ input in wastewater treatment plants, for use with IQ SENSOR NET. Factory calibrated system composed of sensor FDO® 700 IQ and membrane cap SC-FDO® 700, without connection cable (SACIQ order separately)	201650	OH
FDO® 700 IQ SW	Digital calibration free optical D.O. sensor (universal use). Optimized for measuring and controlling the O ₂ input in seawater applications, for use with IQ SENSOR NET. Factory calibrated system composed of sensor FDO® 700 IQ SW, membrane cap SC-FDO® 700 and protective cap MSK FDO®, without connection cable (SACIQ order separately).	201652	OH
FDO 701 IQ SW	Digital calibration free optical D.O. sensor with fast response time (universal use). Optimized for measuring/controlling the O ₂ input in seawater applications, for use with IQ SENSOR NET. Factory calibrated system composed of sensor FDO® 700 IQ SW, membrane cap SC-FDO® 701 and protective cap MSK FDO®, without connection cable (SACIQ order separately)	201653	OH
FDO 701 IQ	Digital calibration free optical D.O. sensor with fast response time (universal use). Optimized for monitoring/controlling the O ₂ input in waste water treatment plants, for use with IQ SENSOR NET. Factory calibrated system composed of sensor FDO® 700 IQ and membrane cap SC-FDO® 701, without connection cable (SACIQ order separately).	201660	OH
Accessories for FDO® 700 IQ			
SC-FDO® 700	Universal sensor cap for FDO® 700 IQ/700 IQ SW	201654	OH
SC-FDO® 701	Fast response time sensor cap for FDO® IQ 701/IQ 701 SW	201655	OH
MSK FDO	Membrane protective cap, provides protection against fishes and rock slide etc. for FDO® 70X IQ and FDO® 70X IQ SW series.	205253	OH
MSK FDO® CS	Cleaning set for FDO® 70X IQ SW and FDO® 70X IQ in combination with MSK FDO®	205254	OK

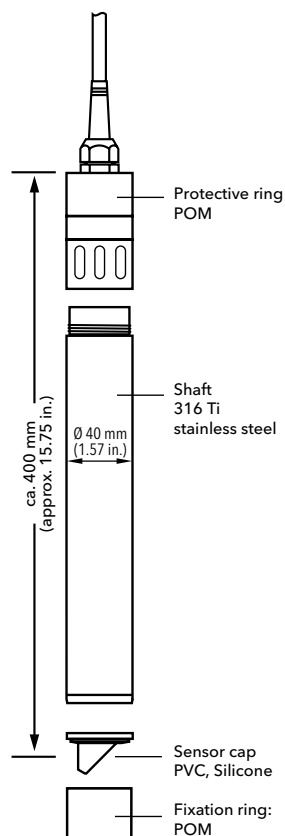
Model	Description	Order No.	
Electrochemical D.O. Sensor TriOxmatic® Series			
TriOxmatic® 700 IQ	Universal digital D.O. sensor for monitoring/controlling O2 input in wastewater treatment plants for use with IQ SENSOR NET. Supplied with accessory kit (ZBK 600) comprising: 2 exchange membrane heads (WP 600/2), 50 ml electrolyte solution (ELY/A), 50 ml cleaning solution (RL-AG/Oxi), 1x cathode cleaner (SF 300), without connection cable (SACIQ order separately)	201640	OH
TriOxmatic® 700 IQ SW	Universal digital D.O. sensor for monitoring/controlling the O2 input, in sea water design, for use with IQ SENSOR NET. Supplied with accessory kit (ZBK 600) comprising: 2 exchange membrane heads (WP 600/2), 50 ml electrolyte solution (ELY/A), 50 ml cleaning solution (RL-AG/Oxi), 1 x cathode cleaner (SF 300), without connection cable (SACIQ order separately)	201641	OH
TriOxmatic® 701 IQ	Fast response time digital D.O. sensor for use in wastewater treatment plants, e.g. denitrification, for use with IQ SENSOR NET. Supplied with accessory kit (ZBK 25i) comprising: 2 exchange membrane heads (WP?25i/2), 50 ml electrolyte solution (ELY/A), 50 ml cleaning solution (RL-AG/Oxi), 1x cathode cleaner (SF 300), without connection cable (SACIQ order separately)	201644	OH
TriOxmatic® 702 IQ	Digital D.O. sensor for trace level measurements in the ppb range, e.g. ultrapure water/boiler feed water, for use with IQ SENSOR NET. Supplied with accessory kit (ZBK 25i) comprising: 2 exchange membrane heads (WP?25i/2), 50 ml electrolyte solution (ELY/A), 50 ml cleaning solution (RL-AG/Oxi), 1x cathode cleaner (SF 300), without connection cable (SACIQ order separately)	201646	OH
Accessories for TriOxmatic® Sensors			
ZBK 600	Accessory kit for D.O. sensors TriOxmatic® 600/690/700/700 IQ/700 IN series, complete set for regeneration of D.O. electrode. Included: 2 exchange membrane heads (WP 600/2), 50 ml electrolyte solution (ELY/A), 50?ml cleaning solution (RL-AG/Oxi), 1x cathode cleaner (SF 300)	202620	OE
ZBK 25i	Accessory kit for D.O. sensors TriOxmatic® 601/701(IQ)/702 (IQ) series, complete set for regeneration of D.O. electrode Included: 2 exchange membrane heads (WP 25i/2), 50 ml electrolyte solution (ELY/A), 50?ml cleaning solution (RL-AG/Oxi), 1x cathode cleaner (SF 300)	202621	OE
WP 600/2	Exchange membrane heads (2 pcs) for D.O. sensor TriOxmatic® 600/690/ 700 (IQ/ IN) series	202850	OE
WP 25i/2	Exchange membrane heads (2 pcs) for D.O. sensor TriOxmatic® 601/701 (IQ)/702 (IQ) series	202852	OE
SF 300	Cathode cleaner (abrasive foil) for WTW D.O. sensors of TriOxmatic® and CellOx® series	203680	LC
RL-AG/Oxi	Cleaning solution for the silver anode of DO sensors of TriOxmatic® series, 1 bottle with 50 ml.	205200	LC
ELY/A	Electrolyte for D.O. sensors series TriOxmatic® 600/601/690/700 (IQ)/701 (IQ)/702 (IQ) Included: 1 bottle with 50 ml	205212	OE

FDO 700 IQ



IQ sensor connection

The SACIQ cable cannot be used with the IQ sensors FDO 70X IQ F and TriOxmatic® 700 IQ F.



Configuration Guide Digital D.O. Measurement		
	1. Measuring range 2. Response time t_{90} 3. SensCheck Function	IQ SENSOR NET Systems 2020 and 281/282/284
TriOxmatic® 700 IQ D.O. sensor for water/wastewater	1.: 0.0 ... 60.0 mg/l 0 ... 600% 2.: < 180 s 3.: SensLeck SensReg	• Water/wastewater • Oxygenation • Fishfarming • Water monitoring
TriOxmatic® 700 IQ (SW)* D.O. sensor for water/wastewater	1.: 0.0 ... 60.0 mg/l 0 ... 600% 2.: < 180 s 3.: SensReg	• Water/wastewater • Oxygenation • Fishfarming • Water monitoring • Seawater
TriOxmatic® 701 IQ D.O. sensor for water/wastewater	1.: 0.00 ... 20.00 mg/l 0.0 ... 60.0 mg/l 0.0 ... 200.0% 0 ... 600% 2.: < 30 s 3.: SensLeck SensReg	• Water/wastewater • Oxygenation • Residual D.O.
TriOxmatic® 702 IQ Trace Level D.O. sensor	1.: 0 ... 2000 µg/l 0.00 ... 10.00 mg/l 0 ... 110% 2.: < 30 s 3.: SensReg	• ppb measuring range • Ultrapure water • Boiler feedwater
FDO 700 IQ D.O. sensor for water/wastewater	1.: 0.0 ... 20.0 mg/l 0 ... 200% 2.: < 150 s 3.: SensCheck	• Water/wastewater • Oxygenation • Fishfarming • Water monitoring
FDO 700 IQ (SW)* D.O. sensor for water/wastewater	1.: 0.0 ... 20.0 mg/l 0 ... 200% 2.: < 150 s 3.: SensCheck	• Water/wastewater • Oxygenation • Seawater • Fishfarming • Water monitoring
FDO 701 IQ D.O. sensor for water/wastewater	1.: 0.0 ... 20.0 mg/l 0 ... 200% 2.: < 60 s 3.: SensCheck	• Water/wastewater • Oxygenation • Fishfarming • Water monitoring
FDO 701 IQ (SW)* D.O. sensor for water/wastewater	1.: 0.0 ... 20.0 mg/l 0 ... 200% 2.: < 60 s 3.: SensCheck	• Water/wastewater • Oxygenation • Seawater • Fishfarming • Water monitoring

* SW: Sensor in sea water design (with plastic armouring (POM))



Detailed technical data can be found in the brochure "**Data sheets process instrumentation**" (999266US); also available on our homepage www.xylenanalytics.com/en under Customer Support/Downloads/Datasheets.

System Configurations Digital Systems

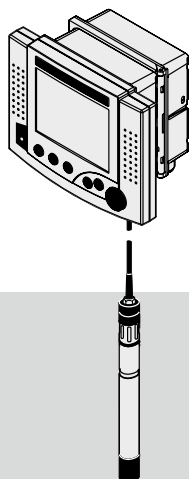
IQ SENSOR NET System 2020

Due to the diversity of system versions, only a small selection of representative configurations can be shown here by way of example.

Example 1 System 2020

Configuration Example Order No.

MIQ/TC 2020 3G-CR3	470 022
SACIQ-7,0	480 042
IQ Sensor	user selected



Starter Set
MIQ/TC 2020 3G-CR3
consisting of:

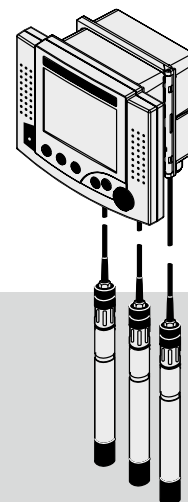
- MIQ/TC 2020 3G (Terminal/Controller)
 - MIQ/CR3 (3 x mA, 3 x relays)
 - MIQ/PS (power supply)
- additionally:
- 1 SACIQ (sensor cable)
 - 1 IQ sensor

Monitor
with 3 analog outputs and 3 relays, universally employ-
able for all parameters

Example 2 System 2020

Configuration Example Order No.

MIQ/TC 2020 3G-CR3	470 022
SACIQ-7,0	480 042
IQ Sensors	user selected



Starter Set
MIQ/TC 2020 3G-CR3
consisting of:

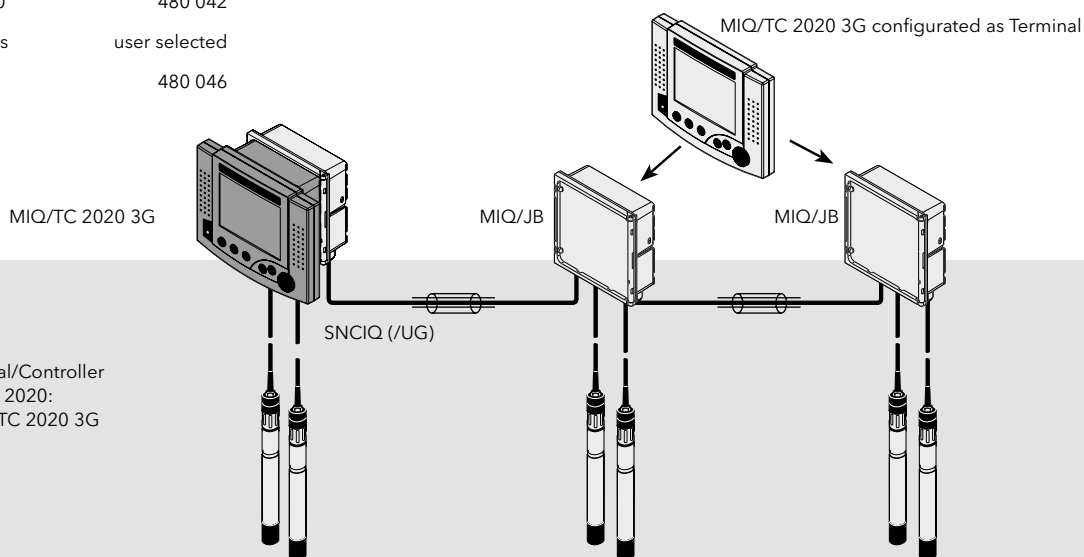
- MIQ/TC 2020 3G (Terminal/Controller)
 - MIQ/CR3 (3 x mA, 3 x Relays)
 - MIQ/PS (power supply)
- additionally:
- 3 SACIQ (sensor cable)
 - 3 IQ sensors

Multi-parameter monitor
for any 3 parameters, with 3 analog outputs and 3 relays

Example 3 System 2020

Configuration Example Order No.

MIQ/TC 2020 3G	470 020
MIQ/PS	480 004
MIQ/C6	480 015
MIQ/JB	480 008
SACIQ-7,0	480 042
IQ Sensors	user selected
SNCIQ	480 046



Terminal/Controller
System 2020:
• MIQ/TC 2020 3G

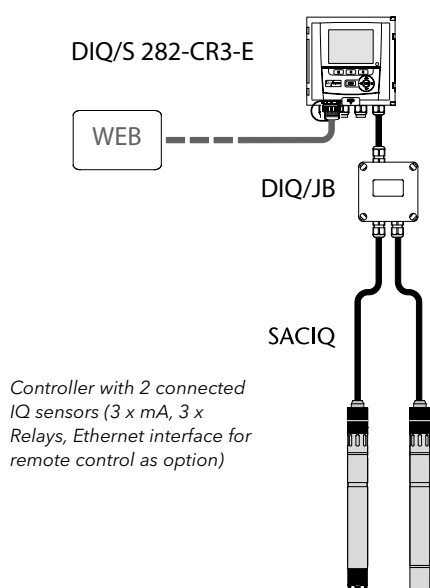
Branched system 2020 for up to any 20 parameters. System with 6 analog outputs; measuring locations 2 and 3 are at a large distance from controller. Extendable by the mobile MIQ/TC 2020 3G terminal that serves as an additional display unit for easy on-site calibration with redundant controller function.

System Configurations Digital Systems

IQ SENSOR NET System 281/282/284

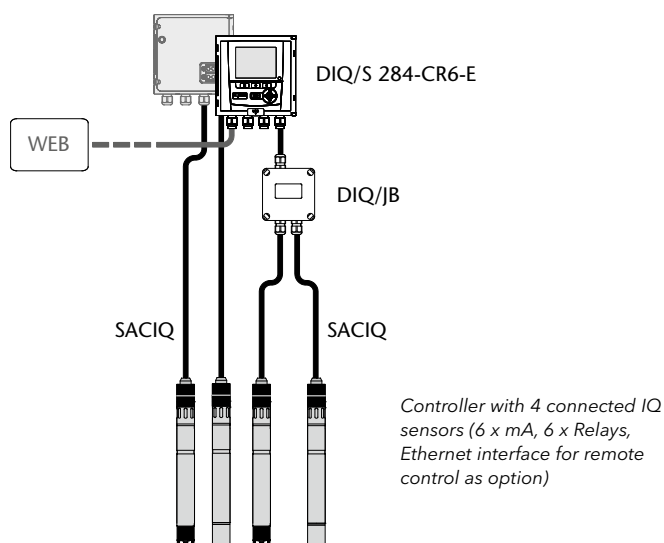
Example 1

Example with 2 IQ sensors	Order no.
DIQ/S 282-CR3-E	472 113
2 x SACIQ-7,0	480 042
DIQ/JB	472 005
2 x IQ sensors	user selected



Example 2

Example with 4 IQ sensors	Order no.
DIQ/S 284-CR6-E	472 133
4 x SACIQ-7,0	480 042
DIQ/JB	472 005
4 x IQ sensors	user selected



Controller is also available with PR- or MOD-interface.

Example 3

Example with 1 IQ Sensor	Order no.
DIQ/S 281-CR2	472103
1x SACIQ-7,0	480042
1x IQ-Sensor	user selected (accepted sensors for standard parameters)

Controller with 1 connected
IQ sensor (2 x mA, 2 x relays)

DIQ/S 281-CR2



pH/ORP

Sensors \ Parameter	TriOxmatic® 700/701/702 IQ (SW)	FDO® 700/701 IQ (SW)	Sensolyt® 700 IQ (SW)	TetraCon® 700 IQ (SW)	VisoTurb® 700 IQ (SW)	ViSolid® 700 IQ	Ammolyt® Plus 700 IQ	Nitralyt® Plus 700 IQ	VARI-ON® Plus 700 IQ	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	UV 701/705 IQ SAC	UV 701/705 IQ NOx	IFL 700 IQ	ColorVis 705 IQ	Alyza IQ PO ₄	Alyza IQ NH ₄
Usable with System 2020 and 282/284	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Usable with mit 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	●	●	●	●			●	●	●											
pH			●																	
ORP			●																	

* When operating with System 282/284, the average power consumption can be used. Details see operating manual System 282/284

** Power supply: Alyza IQ PO₄ provides 10 W



Analog devices can be found in the chapter "Analog measurement technology"



Information on conductivity devices for hazardous areas (EX zone) can be found in the chapter "ATEX".

Model	Description	Order No.	
pH/ORP Combination Electrodes			
Sensolyt® TFA	pH combination electrode especially suited for industrial or not typical municipal wastewater, with armouring for use in Sensolyt® sensors. With watertight S7 plug head (IP 67); measuring range 2 ... 12 pH	109114	0I
Sensolyt® SEA	pH combination electrode especially suited for measurements in heavily polluted wastewater, with armouring for use in Sensolyt® sensors. With watertight S7 plug head (IP 67); measuring range 0 ... 12 pH	109115	0I
Sensolyt® ECA	pH combination electrode esp. suited for normally polluted wastewater (e.g. municipal wastewater) with armouring for use in Sensolyt® sensors. With watertight S7 plug head (IP 67); measuring range 0 ... 12 pH	109117	0I
Sensolyt® SEA-HP	pH combination electrode with optimized armouring for use under high pressure/temperature conditions, for installation in Sensolyt® sensors. With watertight S7 plug head (IP 67); measuring range 4 ... 12 pH	109118	0E
Sensolyt® DWA	pH combination electrode especially for drinking water applications, for installation in sensors of Sensolyt® 650/690/700 (IQ) series. With watertight S7 plug head (IP 67); measuring range 0 ... 14 pH	109119	0I
Sensolyt® PtA	ORP combination electrode especially suited for measurements in heavily polluted wastewater, for installation in Sensolyt® sensors. With watertight S7 plug head (IP 67); measuring range - 2000 ... + 2000 mV	109125	0E
Sensolyt® PtFA	New ORP combination electrode especially suited for industrial or not typical municipal wastewater, for installation in Sensolyt® sensors. With watertight S7 plug head (IP 67); measuring range - 2000 ... + 2000 mV	109126	0E

Model	Description	Order No.	
pH/ORP Sensors			
SensoLyt® 700 IQ	Robust digital pH/ORP sensor for pH/ORP electrodes SensoLyt® SEA/DWA/ECA/PtA for use with the IQ SENSOR NET. With built-in pre-amplifier and temperature sensor (NTC), with SensCheck function, without connection cable (please order SACIQ separately)	109170	OH
SensoLyt® 700 IQ SW	Robust digital pH/ORP sensor for SensoLyt® SEA/ DWA/ECA/PtA pH/ORP electrodes, in sea water design, for use with the IQ SENSOR NET. With built-in pre-amplifier and temperature sensor (NTC), with SensCheck function, without connection cable (please order SACIQ separately)	109171	OH
SensoLyt® 700 IQ/SET	Robust digital pH/ORP sensor (SensoLyt® 700 IQ) including pH electrode (SensoLyt® SEA) and 7 m (23 ft) sensor adapter cable (SACIQ-7,0)	109173	OH
SensoLyt® 700 IQ/SET1	Robust digital pH/ORP sensor (SensoLyt® 700 IQ) including ORP electrode (SensoLyt® PtA) and 7 m (23 ft) sensor adapter cable (SACIQ-7,0)	109174	OH
SensoLyt® 700-SK	Protecting cage (protection against strikes/ solids) for SensoLyt® pH/ORP electrodes within SensoLyt® sensors	109194	OF
Accessories pH/ORP			
TEP 4	Technical buffer solution, 1 bottle with 1 l: pH 4.01	108700	LI1
TEP 7	Technical buffer solution, 1 bottle with 1 l: pH 7.00	108702	LI1
TEP 10 Trace	Technical buffer solution, 1 bottle with 1 l: pH 10.01	108703	LI1
RH 28	ORP buffer solution pH 7, UH = 427 mV (CH), 1 bottle with 250 ml.	109740	LC

Configuration Guide Digital pH/ORP Measurement			
Digital			IQ SENSOR NET
			Systems 2020 and 281/282/284
	SensoLyt® 700 IQ with integrated pre-amplifier, integrated temperature measurement 32 ... 140 °F (0 ... 60 °C), SensorCheck and calibration value storage	Compatible electrodes: SEA, SEA-HP, DWA, ECA, PtA Temp.: 32 ... 140 °F (0 ... +60 °C) Measuring range when using armature: 4 ... 12 pH	• Digital signal transmission • SensCheck • pH/ORP measurement in highly polluted wastewater (municipal/industrial) Type SEA • pH measurement in normally polluted wastewater (municipal/industrial) Type ECA • pH measurement in drinking water (DWA) • ORP measurement in highly polluted wastewater (municipal/industrial) Type PtA • Inline installation (SEA or SEA-HP)
Digital	SensoLyt® 700 IQ (SW)* with integrated pre-amplifier, integrated temperature measurement 32 ... 140 °F (0 ... 60 °C), SensorCheck and calibration value storage	Compatible electrodes: SEA, SEA-HP, DWA, ECA, PtA Temp.: 32 ... 140 °F (0 ... +60 °C) Measuring range when using armature: 4 ... 12 pH	• Digital signal transmission • SensCheck • pH/ORP measurement in highly polluted wastewater (municipal/industrial) Type SEA • pH measurement in normally polluted wastewater (municipal/industrial) Type ECA • pH measurement in drinking water (DWA) • ORP measurement in highly polluted wastewater (municipal/industrial) Type PtA • Inline installation (SEA or SEA-HP)
	Configuration Guide Analog pH/ORP Measurement with IQ SENSOR NET (connection via junction box KI/pH-MIQ/S to Systems 282/284 & 2020)		
Analog	CHEMtrac 830 M pH/ORP retractable housing with flushing chamber for maintenance and calibration, stainless steel 1.4404/316L, operating conditions: 16 bar, 284 °F (140 °C)	Applicable electrodes: PL 80-225pH: 0 ... 14 pH, 32 ... 266 °F (0 ... 130 °C) PL 89-225pt: -2000 ... +2000 mV, 32 ... 266 °F (0 ... 130 °C)	KI/pH-MIQ/S (505 544) K 5 S cable (108 461) AS 9 HI-6,0 cable (108 507)

* SW: Sensor in sea water design (with plastic armouring (POM))



Detailed technical data can be found in the brochure "**Data sheets process instrumentation**" (999266US); also available on our homepage www.xylenanalytics.com/en under Customer Support/Downloads/Datasheets.

System Configurations Digital Systems

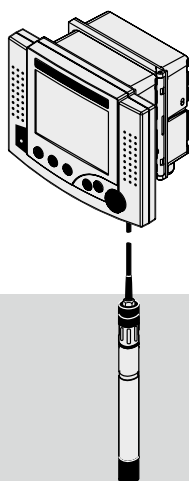
IQ SENSOR NET System 2020

Due to the diversity of system versions, only a small selection of representative configurations can be shown here by way of example.

Example 1 System 2020

Configuration Example Order No.

MIQ/TC 2020 3G-CR3	470 022
SACIQ-7,0	480 042
IQ Sensor	user selected



Starter Set
MIQ/TC 2020 3G-CR3
consisting of:

- MIQ/TC 2020 3G (Terminal/Controller)
- MIQ/CR3 (3 x mA, 3 x relays)
- MIQ/PS (power supply)

additionally:

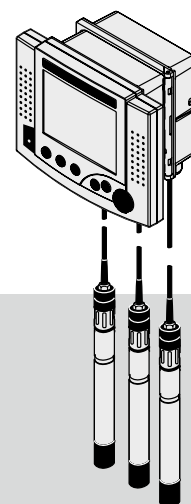
- 1 SACIQ (sensor cable)
- 1 IQ sensor

Monitor
with 3 analog outputs and 3 relays, universally employ-
able for all parameters

Example 2 System 2020

Configuration Example Order No.

MIQ/TC 2020 3G-CR3	470 022
SACIQ-7,0	480 042
IQ Sensors	user selected



Starter Set
MIQ/TC 2020 3G-CR3
consisting of:

- MIQ/TC 2020 3G (Terminal/Controller)
- MIQ/CR3 (3 x mA, 3 x Relays)
- MIQ/PS (power supply)

additionally:

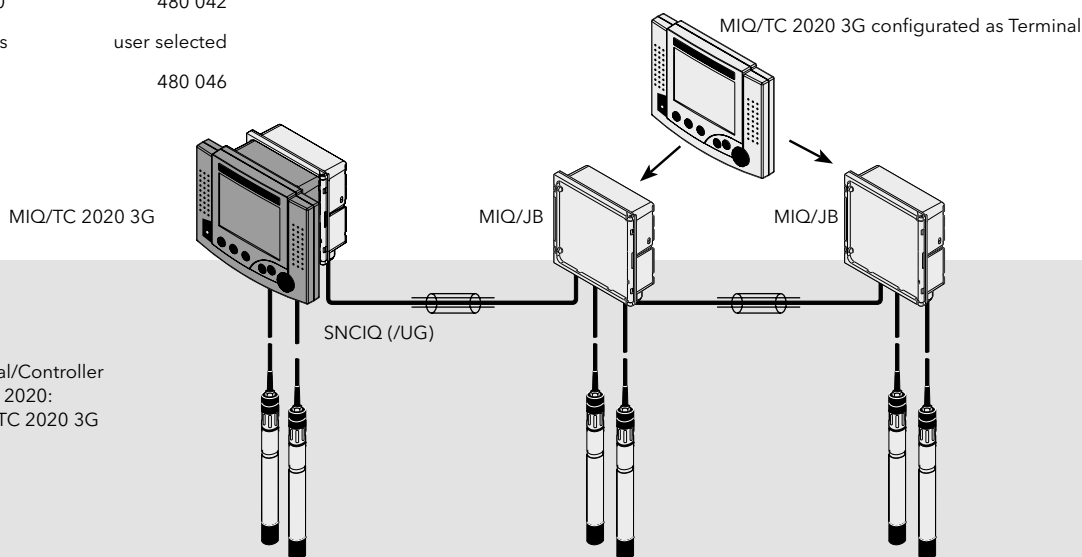
- 3 SACIQ (sensor cable)
- 3 IQ sensors

Multi-parameter monitor
for any 3 parameters, with 3 analog outputs and 3 relays

Example 3 System 2020

Configuration Example Order No.

MIQ/TC 2020 3G	470 020
MIQ/PS	480 004
MIQ/C6	480 015
MIQ/JB	480 008
SACIQ-7,0	480 042
IQ Sensors	user selected
SNCIQ	480 046



Terminal/Controller
System 2020:
• MIQ/TC 2020 3G

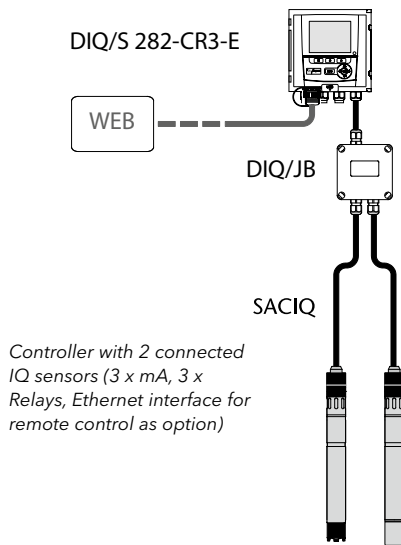
Branched system 2020 for up to any 20 parameters. System with 6 analog outputs; measuring locations 2 and 3 are at a large distance from controller. Extendable by the mobile MIQ/TC 2020 3G terminal that serves as an additional display unit for easy on-site calibration with redundant controller function.

System Configurations Digital Systems

IQ SENSOR NET System 281/282/284

Example 1

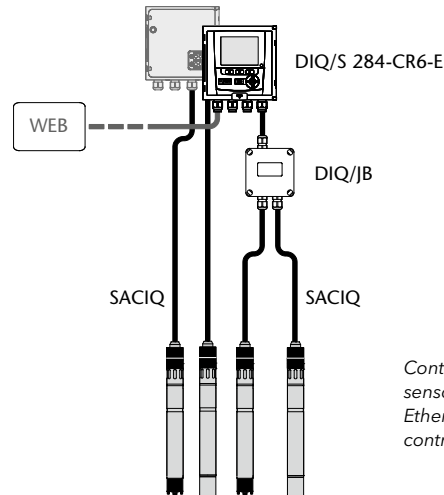
Example with 2 IQ sensors	Order no.
DIQ/S 282-CR3-E	472 113
2 x SACIQ-7,0	480 042
DIQ/JB	472 005
2 x IQ sensors	user selected



Controller is also available with PR- or MOD-interface.

Example 2

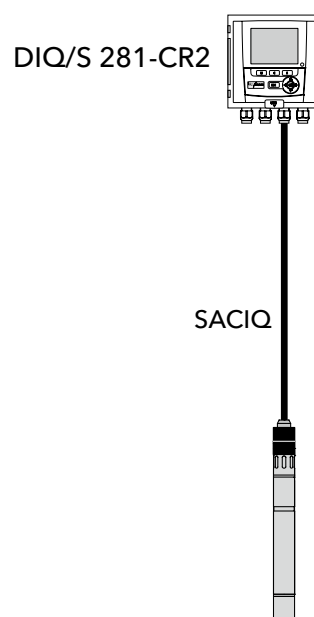
Example with 4 IQ sensors	Order no.
DIQ/S 284-CR6-E	472 133
4 x SACIQ-7,0	480 042
DIQ/JB	472 005
4 x IQ sensors	user selected



Example 3

Example with 1 IQ Sensor	Order no.
DIQ/S 281-CR2	472103
1x SACIQ-7,0	480042
1x IQ-Sensor	user selected (accepted sensors for standard parameters)

Controller with 1 connected IQ sensor (2 x mA, 2 x relays)



Conductivity

Sensors \ Parameter	TriOxmatic® 700/701/702 IQ (SW)	FDO® 700/701 IQ (SW)	Sensolyt® 700 IQ (SW)	TetraCon® 700 IQ (SW)	VisoTurb® 700 IQ (SW)	ViSolid® 700 IQ	Ammolyt® Plus 700 IQ	Nitralyt® Plus 700 IQ	VARiON® Plus 700 IQ	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	UV 701/705 IQ SAC	UV 701/705 IQ NOx	IFL 700 IQ	ColorVis 705 IQ	Alyza IQ PO ₄	Alyza IQ NH ₄
Usable with System 2020 and 282/284	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Usable with mit 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	●	●	●	●			●	●	●											
Conductivity				●																
Salinity				●																
TDS				●																

* When operating with System 282/284, the average power consumption can be used. Details see operating manual System 282/284

** Power supply: Alyza IQ PO₄ provides 10 W

Model	Description	Order No.	
Conductivity Cells			
TetraCon® 700 IQ	Digital 4 electrode conductivity cell, especially for heavily polluted wastewater, for use with the IQ SENSOR NET System. With integrated temperature sensor, without cable (Please order SACIQ separately)	302500	OH
TetraCon® 700 IQ SW	Digital 4 electrode conductivity cell, in seawater design, suited for heavily polluted water, for use with the IQ SENSOR NET. With integrated temperature sensor, without cable (Please order SACIQ separately)	302501	OH



Analog devices can be found in the chapter "Analog measurement technology"

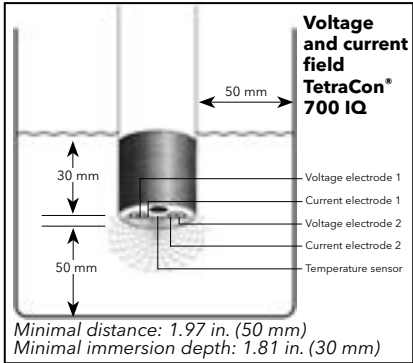
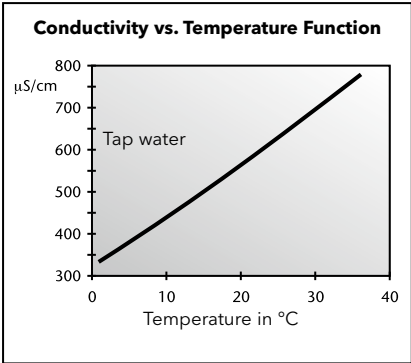
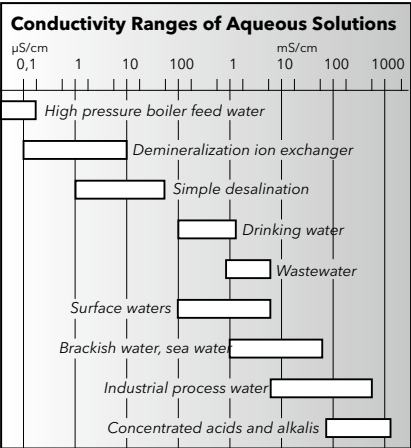


Information on conductivity devices for hazardous areas (EX zone) can be found in the chapter "ATEX".



Detailed technical data can be found in the brochure „**Data sheets process instrumentation**“ (999266US); also available on our homepage www.xylenalytics.com/en under Customer Support/Downloads/Datasheets..

Conductivity Measurement with TetraCon® 700 IQ



Configuration Guide Digital Conductivity Measurement				
		1. Measuring range 2. Cell constant 3. Probe type 4. Temperature compensation	5. Temperature range 6. Pressure range 7. Protection rating	IQ SENSOR NET Systems 2020 and 281/282/284
Digital	TetraCon® 700 IQ	1.: 10 µS/cm ... 500 mS/cm 2.: K=0.917 cm ⁻¹ 3.: 4-electrode cell 4.: NTC	5.: 0 ... 60 °C (32 ... 140 °F) 6.: 10 bar 7.: IP 68 (electrode)	Water/Wastewater; Usable Measuring Range: 0.00 ... 20.00 µS/cm 0.0 ... 200.0 µS/cm 0.000 ... 2.000 mS/cm 0.00 ... 20.00 mS/cm 0.0 ... 200.0 mS/cm 0 ... 500 mS/cm
	TetraCon® 700 IQ (SW)*	1.: 10 µS/cm ... 500 mS/cm 2.: K=0.917 cm ⁻¹ 3.: 4-electrode cell 4.: NTC	5.: 0 ... 60 °C (32 ... 140 °F) 6.: 10 bar 7.: IP 68 (electrode)	Water/Wastewater; Usable Measuring Range: 0.00 ... 20.00 µS/cm 0.0 ... 200.0 µS/cm 0.000 ... 2.000 mS/cm 0.00 ... 20.00 mS/cm 0.0 ... 200.0 mS/cm 0 ... 500 mS/cm
Configuration Guide Analog Conductivity Measurement with IQ SENSOR NET				
(connection via junction box KI/LF-0,9/MIQ to Systems 282/284 & 2020)				
Analog	TetraCon® 700	1.: 10 µS/cm ... 1000 mS/cm 2.: K=0.917 cm ⁻¹ 3.: 4-electrode cell 4.: NTC	5.: 0 ... 50 °C (23 ... 122 °F) 6.: 10 bar 7.: IP 68 (electrode)	KI/LF-0,9/MIQ 505 570
	LRD 01	1.: 0,01 ... 200 µS/cm 2.: K=0.1 cm ⁻¹ 3.: 2-electrode cell 4.: NTC	5.: -5 ... 130 °C (23 ... 266 °F) 6.: 14 bar (20 °C/68 °F) 7.: IP 68 (electrode)	KI/LF-0,1 MIQ 505 573
	LRD 325	1.: 1 µS/cm ... 2 S/cm 2.: K=0.475 cm ⁻¹ 3.: 4-electrode cell 4.: NTC	5.: -5 ... 100 °C (23 ... 212 °F) 6.: 10 bar 7.: IP 68 (electrode)	KI/LF-0,4/MIQ 505 572
	LR 325/01	1.: 0.001 ... 300 µS/cm 2.: K=0.1 cm ⁻¹ 3.: 2-electrode cell 4.: NTC	5.: -5 ... 100 °C (23 ... 212 °F) 6.: 2 bar 7.: IP 68 (electrode)	KI/LF-0,1 MIQ 505 573 + ADA/AMPH-LAB-LF 303 212
	LR 325/001	1.: 0.0001 ... 30 µS/cm 2.: K=0.01 cm ⁻¹ 3.: 2-electrode cell 4.: NTC	5.: -5 ... 100 °C (23 ... 212 °F) 6.: 2 bar 7.: IP 68 (electrode)	KI/LF-0,01 MIQ 505 574 + ADA/AMPH-LAB-LF 303 212
	TetraCon® 325	1.: 1 µS/cm ... 2 S/cm 2.: K=0.475 cm ⁻¹ 3.: 4-electrode cell 4.: NTC	5.: -5 ... 100 °C (23 ... 212 °F) 6.: 2 bar 7.: IP 68 (electrode)	KI/LF-0,4/MIQ 505 572 + ADA/AMPH-LAB-LF 303 212
	TetraCon® DU/T	1.: 1 µS/cm ... 2 S/cm 2.: K=0.778 cm ⁻¹ 3.: 4-electrode cell 4.: NTC	5.: 0 ... 60 °C (32 ... 140 °F) 6.: 2 bar 7.: IP 65	KI/LF-0,7/MIQ 505 571 + ADA/AMPH-LAB-LF 303 212 + KKDU 325 301 963

* SW: Sensor in sea water design (with plastic armouring (POM))

** F: sensor with fixed cable connection

System Configurations Digital Systems

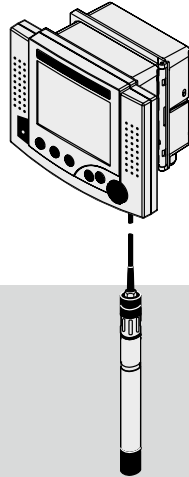
IQ SENSOR NET System 2020

Due to the diversity of system versions, only a small selection of representative configurations can be shown here by way of example.

Example 1 System 2020

Configuration Example Order No.

MIQ/TC 2020 3G-CR3	470 022
SACIQ-7,0	480 042
IQ Sensor	user selected



Starter Set
MIQ/TC 2020 3G-CR3
consisting of:

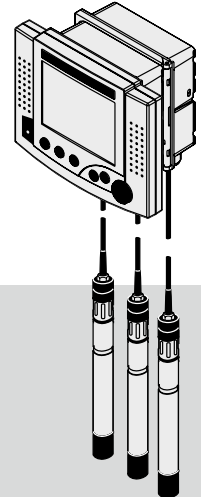
- MIQ/TC 2020 3G (Terminal/Controller)
 - MIQ/CR3 (3 x mA, 3 x relays)
 - MIQ/PS (power supply)
- additionally:
- 1 SACIQ (sensor cable)
 - 1 IQ sensor

Monitor
with 3 analog outputs and 3 relays, universally employ-
able for all parameters

Example 2 System 2020

Configuration Example Order No.

MIQ/TC 2020 3G-CR3	470 022
SACIQ-7,0	480 042
IQ Sensors	user selected



Starter Set
MIQ/TC 2020 3G-CR3
consisting of:

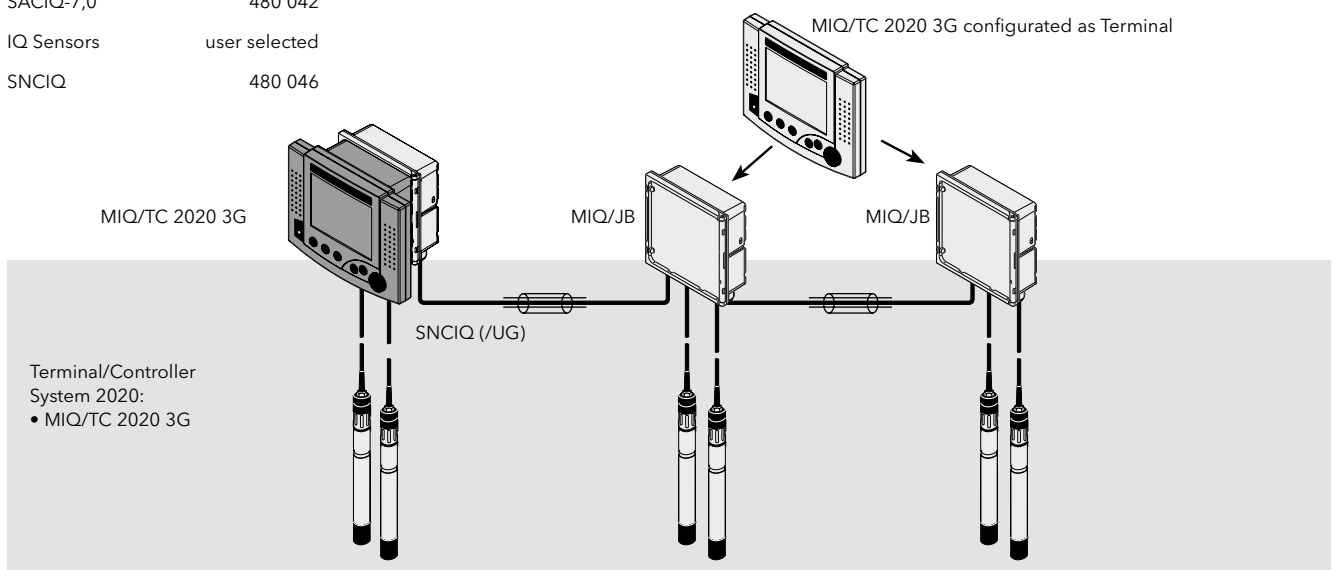
- MIQ/TC 2020 3G (Terminal/Controller)
 - MIQ/CR3 (3 x mA, 3 x Relays)
 - MIQ/PS (power supply)
- additionally:
- 3 SACIQ (sensor cable)
 - 3 IQ sensors

Multi-parameter monitor
for any 3 parameters, with 3 analog outputs and 3 relays

Example 3 System 2020

Configuration Example Order No.

MIQ/TC 2020 3G	470 020
MIQ/PS	480 004
MIQ/C6	480 015
MIQ/JB	480 008
SACIQ-7,0	480 042
IQ Sensors	user selected
SNCIQ	480 046



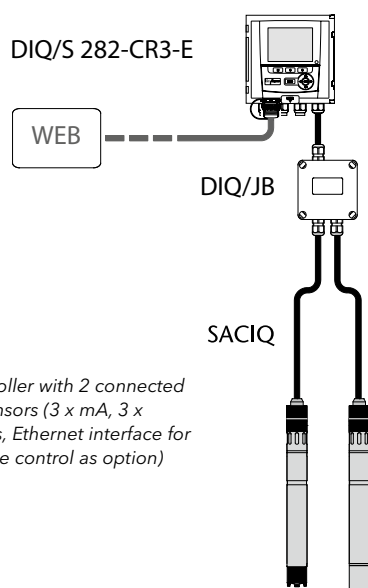
Branched system 2020 for up to any 20 parameters. System with 6 analog outputs; measuring locations 2 and 3 are at a large distance from controller. Extendable by the mobile MIQ/TC 2020 3G terminal that serves as an additional display unit for easy on-site calibration with redundant controller function.

System Configurations Digital Systems

IQ SENSOR NET System 281/282/284

Example 1

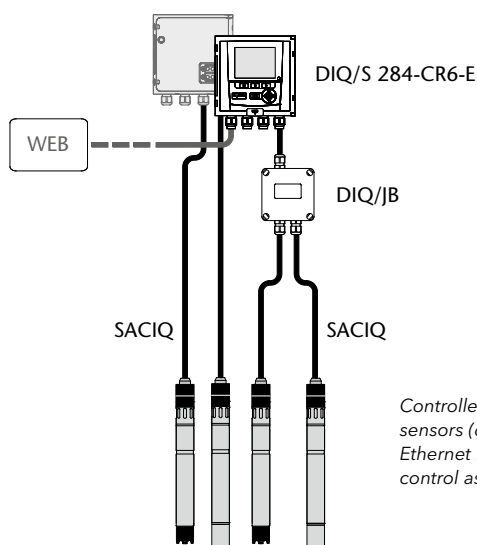
Example with 2 IQ sensors	Order no.
DIQ/S 282-CR3-E	472 113
2 x SACIQ-7,0	480 042
DIQ/JB	472 005
2 x IQ sensors	user selected



Controller with 2 connected IQ sensors (3 x mA, 3 x Relays, Ethernet interface for remote control as option)

Example 2

Example with 4 IQ sensors	Order no.
DIQ/S 284-CR6-E	472 133
4 x SACIQ-7,0	480 042
DIQ/JB	472 005
4 x IQ sensors	user selected



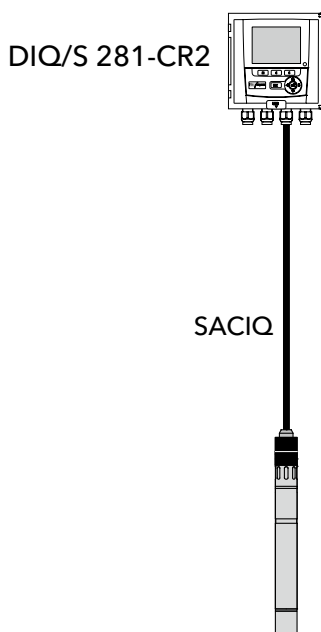
Controller with 4 connected IQ sensors (6 x mA, 6 x Relays, Ethernet interface for remote control as option)

Controller is also available with PR- or MOD-interface.

Example 3

Example with 1 IQ Sensor	Order no.
DIQ/S 281-CR2	472103
1x SACIQ-7,0	480042
1x IQ-Sensor	user selected (accepted sensors for standard parameters)

Controller with 1 connected IQ sensor (2 x mA, 2 x relays)



Turbidity/Suspended Solids

Sensors Parameter	TriOxmatic® 700/701/702 IQ (SW)	FDO® 700/701 IQ (SW)	Sensolyt® 700 IQ (SW)	TetraCon® 700 IQ (SW)	VisoTurb® 700 IQ (SW)	ViSolid® 700 IQ	Ammolyt® Plus 700 IQ	NitraLyt® Plus 700 IQ	VARION® Plus 700 IQ	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	UV 701/705 IQ SAC	UV 701/705 IQ NOx	IFL 700 IQ	ColorVis 705 IQ	Alyza IQ PO ₄	Alyza IQ NH ₄
Usable with System 2020 and 282/284	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Usable with mit 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																				
Turbidity (optical)					●															
TSS (optical)					●	●				●		●	●							

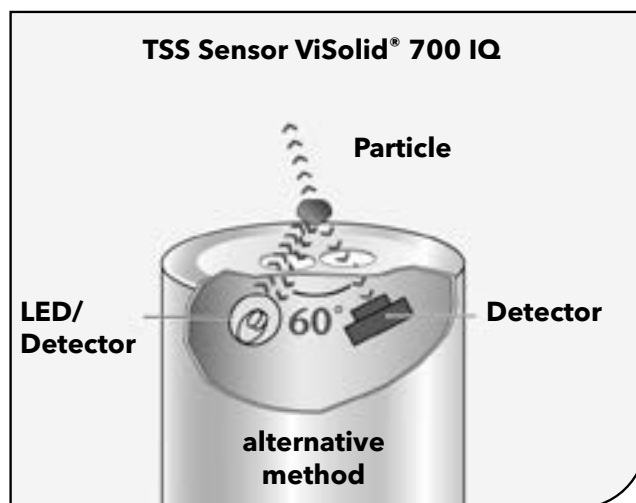
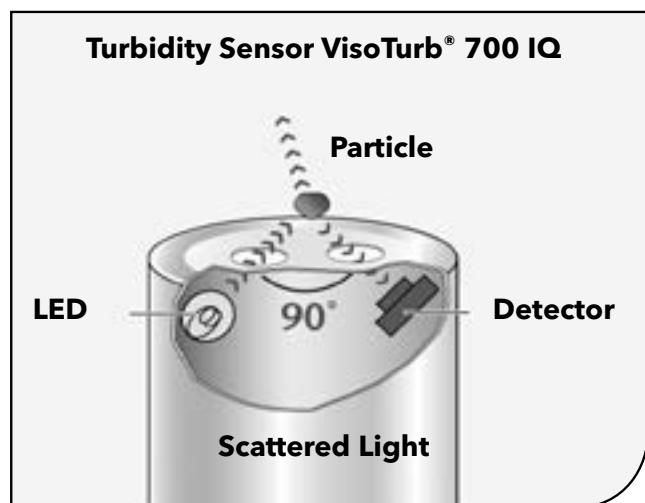
* When operating with System 282/284, the average power consumption can be used. Details see operating manual System 282/284

** Power supply: Alyza IQ PO₄ provides 10 W



Detailed technical data can be found in the brochure "**Data sheets process instrumentation**" (999266US); also available on our homepage www.xylenanalytics.com/en under Customer Support/Downloads/Datasheets.

Model	Description	Order No.	
Turbidity/Suspended Solids Sensors			
VisoTurb® 700 IQ	Digital turbidity sensor for drinking water/water and wastewater (ultrasonic cleaning) for use with the IQ SENSOR NET system. Please order connection cable SACIQ separately.	600010	0H
VisoTurb® 700 IQ SW	Digital turbidity sensor for industrial and seawater applications (ultrasonic cleaning) for use with the IQ SENSOR NET system. Please order connection cable separately.	600011	0H
ViSolid® 700 IQ	Digital suspended solids sensor for water/wastewater/sludge (ultrasonic cleaning) for use with the IQ SENSOR NET system. Please order connection cable SACIQ separately.	600012	0H
ViSolid® 700 IQ SW	Digital suspended solids sensor for industrial and seawater applications (ultrasonic cleaning) for use with the IQ SENSOR NET system. Please order connection cable separately.	600013	0H
Turbidity/Suspended Solids Accessories			
Standard 1000 FNU	Standard with 1000 FNU for VisoTurb® 700 IQ.	600014	0H
Standard 4000 FNU	Standard with 4000 FNU for ViSolid® 700 IQ.	600015	0H



System Configurations Digital Systems

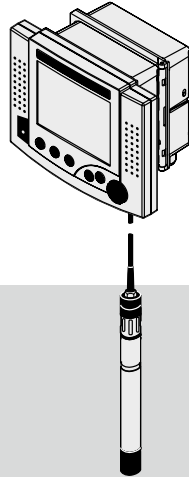
IQ SENSOR NET System 2020

Due to the diversity of system versions, only a small selection of representative configurations can be shown here by way of example.

Example 1 System 2020

Configuration Example Order No.

MIQ/TC 2020 3G-CR3	470 022
SACIQ-7,0	480 042
IQ Sensor	user selected



Starter Set
MIQ/TC 2020 3G-CR3
consisting of:

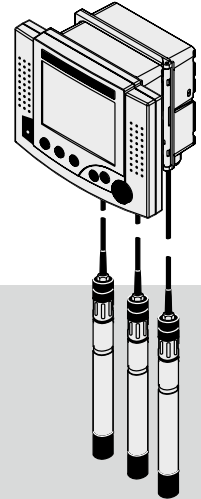
- MIQ/TC 2020 3G (Terminal/Controller)
 - MIQ/CR3 (3 x mA, 3 x relays)
 - MIQ/PS (power supply)
- additionally:
- 1 SACIQ (sensor cable)
 - 1 IQ sensor

Monitor
with 3 analog outputs and 3 relays, universally employ-
able for all parameters

Example 2 System 2020

Configuration Example Order No.

MIQ/TC 2020 3G-CR3	470 022
SACIQ-7,0	480 042
IQ Sensors	user selected



Starter Set
MIQ/TC 2020 3G-CR3
consisting of:

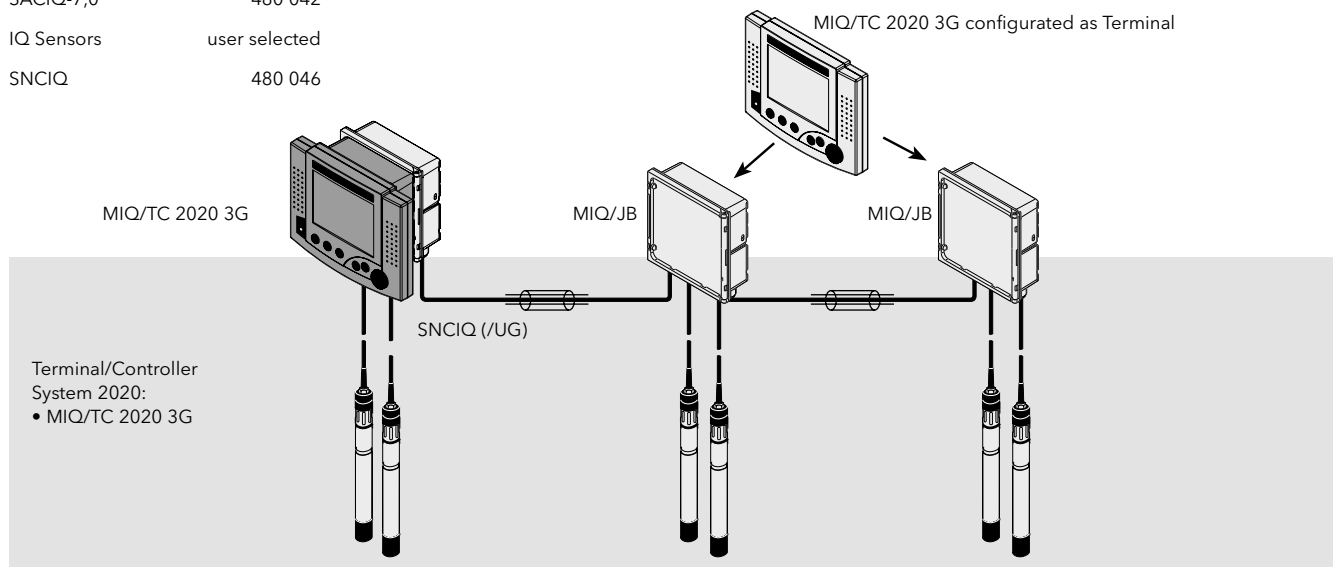
- MIQ/TC 2020 3G (Terminal/Controller)
 - MIQ/CR3 (3 x mA, 3 x Relays)
 - MIQ/PS (power supply)
- additionally:
- 3 SACIQ (sensor cable)
 - 3 IQ sensors

Multi-parameter monitor
for any 3 parameters, with 3 analog outputs and 3 relays

Example 3 System 2020

Configuration Example Order No.

MIQ/TC 2020 3G	470 020
MIQ/PS	480 004
MIQ/C6	480 015
MIQ/JB	480 008
SACIQ-7,0	480 042
IQ Sensors	user selected
SNCIQ	480 046



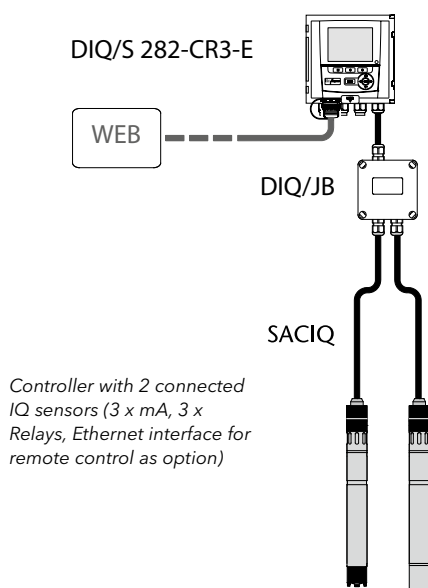
Branched system 2020 for up to any 20 parameters. System with 6 analog outputs; measuring locations 2 and 3 are at a large distance from controller. Extendable by the mobile MIQ/TC 2020 3G terminal that serves as an additional display unit for easy on-site calibration with redundant controller function.

System Configurations Digital Systems

IQ SENSOR NET System 281/282/284

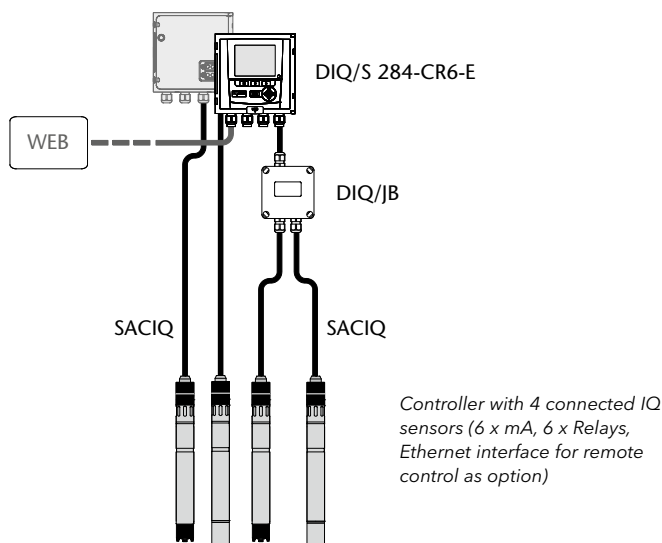
Example 1

Example with 2 IQ sensors	Order no.
DIQ/S 282-CR3-E	472 113
2 x SACIQ-7,0	480 042
DIQ/JB	472 005
2 x IQ sensors	user selected



Example 2

Example with 4 IQ sensors	Order no.
DIQ/S 284-CR6-E	472 133
4 x SACIQ-7,0	480 042
DIQ/JB	472 005
4 x IQ sensors	user selected



Controller is also available with PR- or MOD-interface.

Example 3

Example with 1 IQ Sensor	Order no.
DIQ/S 281-CR2	472 103
1x SACIQ-7,0	480 042
1x IQ-Sensor	user selected (accepted sensors for standard parameters)

Controller with 1 connected IQ sensor (2 x mA, 2 x relays)

DIQ/S 281-CR2



SACIQ

Nitrogen

Sensors Parameter	TriOxmatic® 700/701/702 IQ (SW)	FDO® 700/701 IQ (SW)	Sensolyt® 700 IQ (SW)	TetraCon® 700 IQ (SW)	VisoTurb® 700 IQ (SW)	ViSolid® 700 IQ	AmmoLyt® Plus 700 IQ	NitraLyt® Plus 700 IQ	VARION® Plus 700 IQ	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	UV 701/705 IQ SAC	UV 701/705 IQ NOx	IFL 700 IQ	ColorVis 705 IQ	Alyza IQ PO ₄	Alyza IQ NH ₄
Usable with System 2020 and 282/284	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Usable with mit 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	●	●	●	●			●	●	●											
TSS (optical)					●	●				●		●	●							
Ammonium (ion-selective)							●		●											
Ammonium (wet chemical)																				●
Nitrate (ion-selective)								●	●											
Nitrate (optical/spectral)										●	●		●	●		● [†]				
Nitrite (optical/spectral)										●			●			●				
Potassium (ion-selective)							●		●											
Chloride (ion-selective)								●	●											

* When operating with System 282/284, the average power consumption can be used. Details see operating manual System 282/284

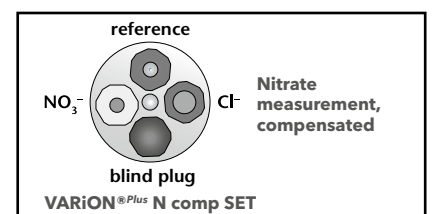
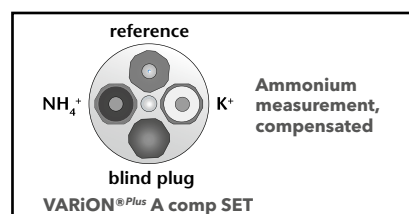
** Power supply: Alyza IQ PO₄ provides 10 W



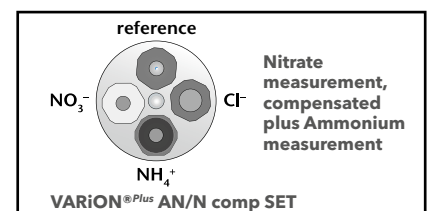
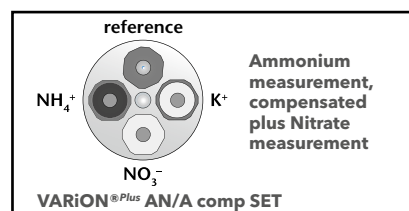
Detailed technical data can be found in the brochure "Data sheets process instrumentation" (999266US); also available on our homepage www.xymanalytics.com/en under Customer Support/Downloads/Datasheets.

VARION® 700 IQ Mounting variants:

NH_4^+ or NO_3^-



Double sensors
 NH_4^+ and NO_3^-



Model	Description	Order No.	
Combination sensor for ammonium and nitrate ISE			
VARiON®Plus sets and standard solution			
VARiON®Plus A comp SET NH4	Robust digital sensor for ion-selective measurement of ammonium and nitrate (in-situ) for use with the IQ SENSOR NET system. Supplied with: Sensor VARiON®Plus 700 IQ, reference electrode VARiON® Ref, ammonium electrode VARiON®Plus NH4 and compensation electrode VARiON®Plus K (potassium). Please order SACIQ cable separately.	107060	OH
VARiON®Plus N comp SET NO3	Robust digital Sensor for ion-selective measurement of ammonium and nitrate (in-situ) for use with the IQ SENSOR NET system. Supplied with: Sensor VARiON®Plus 700 IQ, reference electrode VARiON® Ref, nitrate electrode VARiON®Plus NO3 and compensation electrode VARiON®Plus Cl (chloride). Please order SACIQ cable separately.	107062	OH
VARiON®Plus AN/A comp SET NH4 & NO3	Robust digital sensor for ion-selective measurement of ammonium and nitrate (in-situ) for use with the IQ SENSOR NET system. Supplied with: Sensor VARiON®Plus 700 IQ, reference electrode VARiON® Ref, measuring electrodes VARiON®Plus NH4 and VARiON®Plus NO3, compensation electrode VARiON®Plus K (potassium). Please order SACIQ cable separately.	107066	OH
VARiON®Plus AN/N comp SET NH4 & NO3	Robust digital sensor for ion-selective measurement of ammonium and nitrate (in-situ) for use with the IQ SENSOR NET system. Supplied with: Sensor VARiON®Plus 700 IQ, reference electrode VARiON® Ref, measuring electrodes VARiON®Plus NH4 and VARiON®Plus NO3, compensation electrode VARiON®Plus Cl (chloride). Please order SACIQ cable separately.	107068	OH
VARiON®/ES-1	Multiple standard solution 1 (low concentration) for VARiON®Plus 700 IQ/ AmmoLyt®Plus 700 IQ/NitraLyt®Plus 700 IQ; Volume: 1000 ml	107050	OH
VARiON®/ES-2	Multiple standard solution 2 (high concentration) for VARiON®Plus 700 IQ/ AmmoLyt®Plus 700 IQ/NitraLyt®Plus 700 IQ; Volume: 1000 ml	107052	OH
VARiON®Plus separate deliveries			
VARiON®Plus 700 IQ	Robust digital sensor for the ion-selective measurement (in-situ) of ammonium and nitrate, for use with the IQ SENSOR NET system. Supplied with: Sensor VARiON®Plus 700 IQ with 4 blind plugs and protective head. Please order electrodes separately.	107040	OH
VARiON®Plus Ref	Reference electrode for mounting into sensors VARiON®Plus 700 IQ, NitraLyt® Plus, AmmoLyt® Plus	107042	OH
VARiON®Plus NH4	Ammonium electrode for VARiON®Plus 700 IQ and AmmoLyt® Plus/AmmoLyt®, measuring range: 0.1 - 2.000 mg/l NH4-N	107044	OH
VARiON®Plus NO3	Nitrate electrode for VARiON®Plus 700 IQ and NitraLyt®Plus/ NitraLyt®, Measuring range: 0.1 - 1000 mg/l NO3-N	107045	OH
VARiON®Plus K	Potassium electrode for VARiON®Plus 700 IQ and for AmmoLyt®Plus, measuring range: 1 - 1000 mg/l K+	107046	OH
VARiON®Plus Cl	Chloride electrode for VARiON®Plus 700 IQ and for NitraLyt® Plus, measuring range: 1-1000 mg/l Cl-	107047	OH
Ammonium ISE			
AmmoLyt®Plus sets and standard solutions			
AmmoLyt® Plus SET/Comp	Robust digital ammonium sensor for ion-selective electrodes (in-situ measuring), for use with the IQ SENSOR NET system, delivered with VARiON® Ref, VARiON®Plus NH4 and VARiON®Plus K electrodes. With built-in lightning protection, pre-amplifier and temperature sensor. Not included: SACIQ connection cable (Please order separately).	107072	OH
VARiON®/ES-1	Multiple standard solution 1 (low concentration) for VARiON®Plus 700 IQ/ AmmoLyt®Plus 700 IQ/NitraLyt®Plus 700 IQ; Volume: 1000 ml	107050	OH
VARiON®/ES-2	Multiple standard solution 2 (high concentration) for VARiON®Plus 700 IQ/ AmmoLyt®Plus 700 IQ/NitraLyt®Plus 700 IQ; Volume: 1000 ml	107052	OH
AmmoLyt®Plus 700 IQ separate deliveries			
VARiON®Plus Ref	Reference electrode for mounting into sensors VARiON®Plus 700 IQ, NitraLyt® Plus, AmmoLyt® Plus	107042	OH
VARiON®Plus NH4	Ammonium electrode for VARiON®Plus 700 IQ and AmmoLyt® Plus/AmmoLyt®, measuring range: 0.1 - 2.000 mg/l NH4-N	107044	OH
VARiON®Plus K	Potassium electrode for VARiON®Plus 700 IQ and for AmmoLyt®Plus, measuring range: 1 - 1000 mg/l K+	107046	OH
AmmoLyt® Plus 700 IQ	Robust digital ammonium sensor for ion-selective electrodes (in-situ measuring), for use with the IQ SENSOR NET system. With built-in lightning protection, pre-amplifier and temperature sensor. Not included: Electrodes VARiON® Ref, VARiON®Plus NH4, VARiON®Plus K and SACIQ connection cable (Please order separately).	107070	OH
Nitrate ISE			
NitraLyt®Plus sets und standard solutions			
NitraLyt®Plus SET/Comp	Robust digital nitrate sensor for ion-selective electrodes (in-situ measuring), for use with the IQ SENSOR NET system, delivered with VARiON® Ref, VARiON®Plus NO3 and VARiON®Plus Cl electrodes. With built-in lightning protection, pre-amplifier and temperature sensor. Not included: SACIQ connection cable (Please order separately).	107082	OH
VARiON®/ES-1	Multiple standard solution 1 (low concentration) for VARiON®Plus 700 IQ/ AmmoLyt®Plus 700 IQ/NitraLyt®Plus 700 IQ; Volume: 1000 ml	107050	OH
VARiON®/ES-2	Multiple standard solution 2 (high concentration) for VARiON®Plus 700 IQ/ AmmoLyt®Plus 700 IQ/NitraLyt®Plus 700 IQ; Volume: 1000 ml	107052	OH

Model	Description	Order No.	
NitraLyt®Plus 700 IQ separate deliveries			
VARiON®Plus Ref	Reference electrode for mounting into sensors VARiON®Plus 700 IQ, NitraLyt® Plus, AmmoLyt® Plus	107042	OH
VARiON®Plus NO3	Nitrate electrode for VARiON®Plus 700 IQ and NitraLyt®Plus/ NitraLyt®, Measuring range: 0.1 - 1000 mg/l NO3-N	107045	OH
VARiON®Plus Cl	Chloride electrode for VARiON®Plus 700 IQ and for NitraLyt® Plus, measuring range: 1-1000 mg/l Cl-	107047	OH
NitraLyt®Plus 700 IQ	Robust digital nitrate sensor for ion-selective electrodes (in-situ measuring), for use with the IQ SENSOR NET system. With built-in lightning protection, pre-amplifier and temperature sensor. Not included: Electrodes VARiON® Ref, VARiON®Plus NO3, VARiON®Plus Cl and SACIQ connection cable (Please order separately).	107080	OH
Accessories ISE			
VARiON® 700 IQ-SK	Protection device for ISE electrodes, mountable on VARiON®Plus 700 IQ/ AmmoLyt®Plus 700 IQ/NitraLyt®Plus 700 IQ	107056	OH
VARiON®/Epack	Spare part set for VARiON®Plus 700 IQ. Consisting of 1 special box spanner for mounting and dismounting of electrodes, 1 blind plug, 3 spare O-ring seals for electrodes and 1 vessel for wet storage of electrodes.	107057	OX
DIQ/CHV	Dual IQ/Cleaning Head Valve for automatic air cleaning controlled by a relay, for system 281/282/284, (relay and compressed air supply external)	472007	OH
Cleaning Air Box - 115 VAC	Air pressure compressor for online sensors. For easy wall mounting, switchable by a relay to provide cleaning systems with air pressure. 115 VAC. No additional CHV PLUS needed.	480017	OH
MIQ/CHV PLUS	Module IQ/Cleaning Head Valve, for automatic air cleaning controlled by a relay or the IQ SENSOR NET (relay and compressed air supply external)	480018	OH
Cleaning Air Box - 230 VAC	Air pressure compressor for online sensors. For easy wall mounting, switchable by a relay to provide cleaning systems with air pressure. 230 VAC. No additional CHV PLUS needed.	480019	OH
CH	Cleaning head for on-line sensors with 40 mm diameter. Supplied with 15 m (49 ft) compressed air tube.	900107	OH
NOx Sensor			
UV 701 IQ NOx	Optical Nitrate (NOx) sensor with single wavelength measurement, for measurement of higher concentrations in wastewater and surface water, with turbidity compensation and integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately)	481034	OF
UV 705 IQ NOx	Optical Nitrate (NOx) sensor with single wavelength measurement, for measurement of lower concentrations in wastewater and surface water, with turbidity compensation and integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481035	OF
Nitrate/Nitrite Spectral Sensors			
NitraVis 701 IQ	Spectral nitrate sensor (60 mm) with spectral processing of UV-VIS range, for measurement in inlet/BNR part of municipal wastewater treatment plants, with integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481044	OF
NitraVis 701 IQ TS	Spectral nitrate/TSS sensor (60 mm) with spectral processing of UV-VIS range, for in-situ measurement in inlet/ BNR part of municipal wastewater treatment plants, with integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481045	OF
NitraVis 705 IQ	Spectral nitrate sensor (60 mm) with spectral processing of UV-VIS range, for measurement in the effluent of municipal wastewater treatment plants, with integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481046	OF
NitraVis 705 IQ TS	Optical nitrate/TSS sensor (60 mm) with spectral processing of UV-VIS range, for measurement in the effluent of municipal wastewater treatment plants, with integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481047	OF
NiCaVis 705 IQ	Spectral UV-VIS sensor (60 mm) for measurement of Nitrate, CODtotal, CODsoluble, TOC, BOD, DOC, SAc total, SAc soluble, and UVT254 , for measurement in the effluent of municipal wastewater treatment plants, with integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481052	OF
NiCaVis 705 IQ TS	Spectral UV-VIS sensor (60 mm) for measurement of Nitrate, CODtotal, CODsoluble, TOC, BOD, DOC, SAc total, SAc soluble, UVT254 and TSS , for measurement in the effluent of municipal wastewater treatment plants, with integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481053	OF
NiCaVis 701 IQ NI	Spectral UV sensor (60 mm) for measurement of Nitrite, Nitrate, CODtotal, CODsoluble, TOC, BOD, DOC, SAc total, SAC soluble, and UVT254 in the influent, biological tank and effluent of municipal waste water treatment plants, with integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481054	OF

Model		Description	Order No.	
NiCaVis 705 IQ NI		Spectral UV sensor (60 mm) for measurement of Nitrite, Nitrate, CODtotal, CODsoluble, TOC, BOD, DOC, SACtotal, SACsoluble, and UVT254 in the effluent of municipal waste water treatment plants, with integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately)	481055	OF
NitraVis 701 IQ NI		Spectral UV sensor (60 mm) for measurement of Nitrite and Nitrate in the influent, biological tank and effluent of municipal waste water treatment plants, with integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481056	OF
NitraVis 705 IQ NI		Spectral UV sensor (60 mm) for measurement of Nitrite and Nitrate in the effluent of municipal wastewater treatment plants, with integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481057	OF
Nitrate/Nitrite Spectral Sensors Surface Water				
NiCaVis 705 IQ SF		Spectral UV-VIS sensor (60 mm) for the measurement of Nitrate, COD, TOC, BOD, DOC, SAC, UVT254 and TS in surface water bodies with integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately)	481058	OF
NiCaVis® 705 IQ NI SF		Spectral UV-VIS sensor (60 mm) for the measurement of Nitrate, Nitrite, COD, TOC, BOD, DOC, SAC and UVT254 in surface water bodies with integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately)	481059	OF
NiCaVis 705 IQ SF Co	New	Spectral UV-VIS probe to measure Nitrate, Color, CODdiss., TOC, BOD, DOC, SAC and UVT254 in surface waters with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings (order SACIQ separately)	481060	OF
NiCaVis 705 IQ TS Co	New	Spectral UV-VIS probe for measuring color, nitrate, CODtot, CODdiss., TOC, BOD, DOC, SACtot., SACdiss. and UVT254 in a WWTP drain/outlet with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings (order SACIQ separately)	481066	OF
Accessories Spectral Sensors (Nitrogen)				
DIQ/CHV		Dual IQ/Cleaning Head Valve for automatic air cleaning controlled by a relay, for system 281/282/284, (relay and compressed air supply external)	472007	OH
Cleaning Air Box - 115 VAC		Air pressure compressor for online sensors. For easy wall mounting, switchable by a relay to provide cleaning systems with air pressure. 115 VAC. No additional CHV PLUS needed.	480017	OH
MIQ/CHV PLUS		Module IQ/Cleaning Head Valve, for automatic air cleaning controlled by a relay or the IQ SENSOR NET (relay and compressed air supply external)	480018	OH
Cleaning Air Box - 230 VAC		Air pressure compressor for online sensors. For easy wall mounting, switchable by a relay to provide cleaning systems with air pressure. 230 VAC. No additional CHV PLUS needed.	480019	OH
VIS FT-1		Flow-through measuring cell for spectral UV and UV-VIS sensors, for operation with automatic compressed air cleaning	480080	OH
VIS FT-1/RS		Spare part set for flow-thru measuring cell VIS FT-1	480081	OH
VIS/CT		Universal cleaning tool for spectral sensors.	481071	OH
VIS/CV		Multifunctional slide for spectral sensors.	481074	OH
SET/AP		Air pressure cleaning set for spectral sensors: Supplied with 15 m (49 ft) tubing, fittings, without further modules and components.	481075	OH
ST-1		Standard with low concentration for 5 mm spectral sensors.	481077	OH
ST-2		Standard with high concentration for 1 mm spectral sensors.	481078	OH
VIS/CS		Universal cleaning tool set for cleaning of measuring windows of spectral sensors with cleaning solutions.	481079	OH
Alyza IQ Ammonium				
Alyza IQ NH4-110		Ammonium analyzer Alyza IQ NH4 for the IQ SENSOR NET, Measurement range 1 and 2, 1-channel w/o pump. Scope of delivery: Ammonium analyzer for indoor and outdoor use, spare parts for the first year, pre-installed 2 m SNCIQ and power cable (please order controller and reagents separately).	825010	OK
Alyza IQ NH4-111		Ammonium analyzer Alyza IQ NH4 for the IQ SENSOR NET, Measurement range 1 and 2, 1-channel with pump. Scope of delivery: Ammonium analyzer for indoor and outdoor use, spare parts for the first year, pre-installed 2 m SNCIQ and power cable (please order controller and reagents separately).	825011	OK
Alyza IQ NH4-112		Ammonium analyzer Alyza IQ NH4 for the IQ SENSOR NET, Measurement range 1 and 2, 2-channel with two pumps. Scope of delivery: Ammonium analyzer for indoor and outdoor use, spare parts for the first year, pre-installed 2 m SNCIQ and power cable (please order controller and reagents separately).	825012	OK

Model	Description	Order No.	
Consumables Alyza IQ NH4			
Filter-REP	Replacement air filter for fan of Alyza IQ and P 700 IQ	821969	OI
MPV-1	Multiport valve for Alyza IQ	827000	OK
TubingSet NH4	Set Tubings NH4 with sample contact	827100	OK
Syringe Pump Set	Spareparts syringe pump	827170	OK
R-NH4/1-1A	Reagent 1A for NH4 measurement range 1 (0.02 ... 5.00 mg/L NH4-N)	827500	OK
R-NH4/1-1B	Reagent 1B for NH4 measurement range 1 (0.02 ... 5.00 mg/L NH4-N)	827501	OK
R-NH4/1-1C	Reagent 1C for NH4 measurement range 1 (0.02 ... 5.00 mg/L NH4-N)	827502	OK
R-NH4/1-2A	Reagent 2A for NH4 measurement range 1 (0.10 ... 20.00 mg/L NH4-N)	827503	OK
R-NH4/1-2B	Reagent 2B for NH4 measurement range 1 (0.10 ... 20.00 mg/L NH4-N)	827504	OK
R-NH4/1-2C	Reagent 2C for NH4 measurement range 1 (0.10 ... 20.00 mg/L NH4-N)	827505	OK
S-NH4/1-0.0	Standard solution 0.0 mg/L NH4-N Alyza IQ	827510	OK
S-NH4/1-1.0	Standard solution 1.0 mg/L NH4-N Alyza IQ	827511	OK
S-NH4/1-4.0	Standard solution 4.0 mg/L NH4-N Alyza IQ	827512	OK
S-NH4/1-16.0	Standard solution 16.0 mg/L NH4-N Alyza IQ	827513	OK
C-NH4/1-1	Cleaning solution 1 Alyza IQ NH4	827518	OK
C-NH4/1-2	Cleaning solution 2 Alyza IQ NH4	827519	OK
R-Set NH4/1-1	Reagent set NH4 measurement range 1 (0.02 ... 5.00 mg/L NH4-N) consisting of reagent 1A, 1B, 1C for analyzer Alyza IQ	827540	OK
R-Set NH4/1-2	Reagent set NH4 measurement range 2 (0.10 ... 20.00 mg/L NH4-N) consisting of reagent 2A, 2B, 2C for analyzer Alyza IQ	827541	OK
SC-Set NH4/1-1_0/1	Set consisting of cleaning solutions and standard solutions 0.0/1.0 mg/l NH4-N for analyzer Alyza IQ NH4	827545	OK
SC-Set NH4/1-1_0/4	Set consisting of cleaning solutions and standard solutions 0.0/4.0 mg/l NH4-N for analyzer Alyza IQ NH4	827546	OK
SC-Set NH4/1-2_0/16	Set consisting of cleaning solution and standard solutions 0.0/16.0 mg/l NH4-N for analyzer Alyza IQ NH4	827547	OK
Filtration Alyza IQ NH4			
FM/PC	Filter membrane module FM-Case/PC with premounted membrane. Suitable for Alyza IQ and P 700 IQ	821939	OK
Filter/PC	Filter module for housing FM-Case/PC. Suitable for Alyza IQ and P 700 IQ	821940	OI
FM-Case/PC	Housing for filter module Filter/PC. Suitable for Alyza IQ and P 700 IQ	821941	OI
SH-5	Intake line with slide fo Alyza IQ, unheated, 5 m (16.4 ft)	822201	OK
SH-10	Intake line with slide fo Alyza IQ, unheated, 10 m (32.8 ft)	822202	OK
SH-15	Intake line with slide for Alyza IQ, unheated, 15 m (49.2 ft)	822203	OK
SH-20	Intake line with slide fo Alyza IQ, unheated, 20 m (65.6 ft)	822204	OK
SH 120-5	Intake line with slide fo Alyza IQ, heated, 120 VAC, 5 m (16.4 ft)	822211	OK
SH 120-10	Intake line with slide fo Alyza IQ, heated, 120 VAC, 10 m (32.8 ft)	822212	OK
SH 120-15	Intake line with slide fo Alyza IQ, heated, 120 VAC, 15 m (49.2 ft)	822213	OK
SH 120-20	Intake line with slide fo Alyza IQ, heated, 120 VAC, 20 m (65.6 ft)	822214	OK
SH 240-5	Intake line with slide fo Alyza IQ, heated, 240 VAC, 5 m (16.4 ft)	822221	OK
SH 240-10	Intake line with slide fo Alyza IQ, heated, 240 VAC, 10 m (32.8 ft)	822222	OK
SH 240-15	Intake line with slide fo Alyza IQ, heated, 240 VAC, 15 m (49.2 ft)	822223	OK
SH 240-20	Intake line with slide fo Alyza IQ, heated, 240 VAC, 20 m (65.6 ft)	822224	OK
RH-0.5	Return line, unheated, 0.5 m (1.6 ft)	822228	OK
RH-1	Return line, unheated, 1 m (3.3 ft)	822229	OK
RH-2	Return line, unheated, 2 m (6.6 ft)	822230	OK
RH-5	Return line, unheated, 5 m (16.4 ft)	822231	OK
RH-10	Return line, unheated, 10 m (32.8 ft)	822232	OK
RH-15	Return line, unheated, 15 m (49.2 ft)	822233	OK
RH-20	Return line, unheated, 2 m (65.6 ft)	822234	OK
RH 120-0.5	Return line, heated, 120 VAC, 0.5 m (1.6 ft)	822238	OK
RH 120-1	Return line, heated, 120 VAC, 1 m (3.2 ft)	822239	OK
RH 120-2	Return line, heated, 120 VAC, 2 m (6.6 ft)	822240	OK
RH 120-5	Return line, heated, 120 VAC, 5 m (16.4 ft)	822241	OK
RH 120-10	Return line, heated, 120 VAC, 10 m (32.8 ft)	822242	OK
RH 120-15	Return line, heated, 120 VAC, 15 m (49.2 ft)	822243	OK
RH 120-20	Return line, heated, 120 VAC, 20 m (65.6 ft)	822244	OK
RH 240-0.5	Return line, heated, 240 VAC, 0.5 m (1.6 ft)	822248	OK
RH 240-1	Return line, heated, 240 VAC, 1 m (3,3 ft)	822249	OK
RH 240-2	Return line, heated, 240 VAC, 2 m (6.6 ft)	822250	OK
RH 240-5	Return line, heated, 240 VAC, 5 m (16.4 ft)	822251	OK
RH 240-10	Return line, heated, 240 VAC, 10 m (32.8 ft)	822252	OK
RH 240-15	Return line, heated, 240 VAC, 15 m (49.2 ft)	822253	OK
RH 240-20	Return line, heated, 240 VAC, 20 m (65.6 ft)	822254	OK

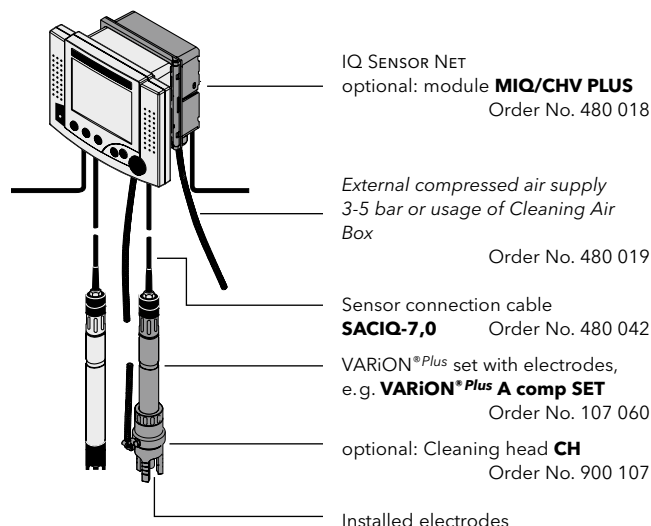
Model	Description	Order No.	
Accessories Alyza IQ NH4			
FM-B	Cleaning brush for filter membrane module	821968	OX
FM-Adapter	Adapter for horizontal mounting of filter membrane module FM	821983	OI
M-EXT 1.5	Extension for attachment M 1.5. Included: Extension 1.5 m, chain, bracket	821985	OI
M 1.5	Attachment for filtration. Included: Rail 1.5 m (4.9 ft), chain, bracket	821986	OI
RM	Rail mount for Alyza IQ and P 700 IQ	821988	OK
WM	Wall mount for Alyza IQ and P 700 IQ	821989	OI
SM	Stand mount for Alyza IQ and P 700 IQ	821991	OI
TM	Accessory for mounting of IQ SENSOR NET components on Alyza IQ. Sun shield needs to be ordered separately.	822000	OK
Overflow Vessel	Overflow vessel incl. overflow tubing	827180	OK
Filtration Pump	Filtration pump for Alyza IQ incl. connecting tube	827185	OK
Check valve	Check valve Alyza IQ, for retrofitting at a head > 5 m	827186	OK
WF Set	Waste funnel set for the separate collection of reagent containing waste	827187	OK
PurCon ACS	Adapter for sample transportation from PurCon® to Alyza IQ	827188	OK

WTW Measuring Systems for Nitrogen					
● recommended by WTW ○ suitable ○ conditionally applicable					
System Sensor/Module	Ammonium		Nitrate		
	*Measurement in aeration basin				
					
	IQ SENSOR NET Alyza IQ NH ₄	IQ SENSOR NET Ammolyt® Plus 700 IQ	IQ SENSOR NET VARION® Plus 700 IQ	IQ SENSOR NET Nitralyt® Plus 700 IQ	IQ SENSOR NET UV 70x IQ NO _x
Measured Variable	NH₄	NH₄	NH₄ and NO₃	NO₃	NO₂ and NO₃
Inlet (determination of load)	○	●	●	○	●
Aeration (regulation and control)	●	●	●	●	●
Effluent (monitoring)	●	○	○	○	●
Autom. Cleaning	cleaning solution	compressed air	compressed air	compressed air	ultrasonic (compressed air)
Cleaning Cycles	variable	variable	variable	variable	variable
Measuring	wet chemical analyzer	in-situ	in-situ	in-situ	in-situ
Sample Preparation	filtration	none	none	none	none
Measuring Interval	10 min. to 12 hrs.	continuous	continuous	continuous	continuous
Response Time	<10 min.	quick	quick	quick	quick
Measuring Method	optical/wet chemical (Berthelot method)	ISE (ion-selective)	ISE (ion-selective)	ISE (ion-selective)	UV-VIS and UV spectrometric
Accuracy	very good	good	good	good	high
Cross Sensitivity	negligible	yes/potassium, compensable	yes, automatic compensation	yes/chloride, compensable	autom. compensated (spec-trum)
Calibration	automatic two-point calibration	factory calibration	factory calibration	factory calibration	not necessary
Investment Costs	medium	low	low	low	medium
Additional Costs	filtration	—	—	—	—
Operational Costs	medium	low	low	low	none
Consumables	reagents, MPV, filter, tube set	electrodes	electrodes	electrodes	none

Measuring Point Configurations ion-selective measuring techniques

VARiON®Plus

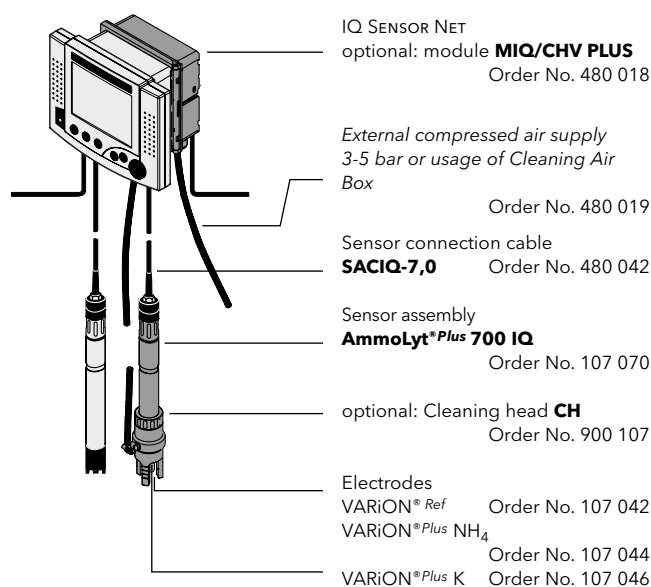
VARiON®Plus System:



required components per measuring place: dark shaded

AmmoLyt®Plus

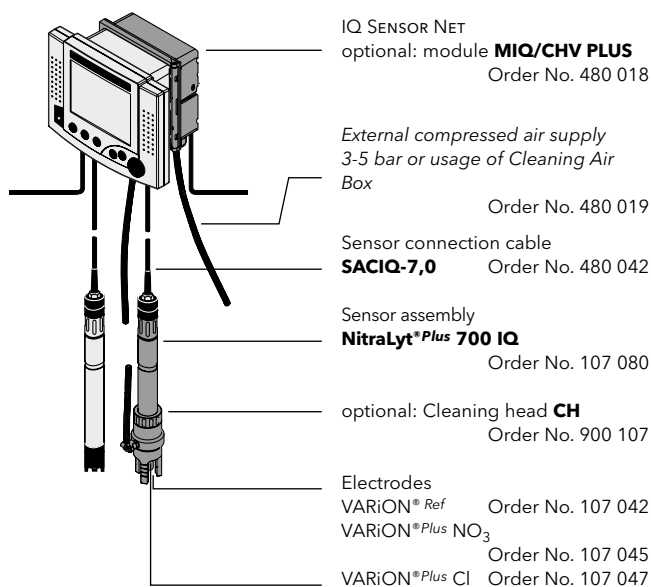
AmmoLyt®Plus System:



required components per measuring place: dark shaded

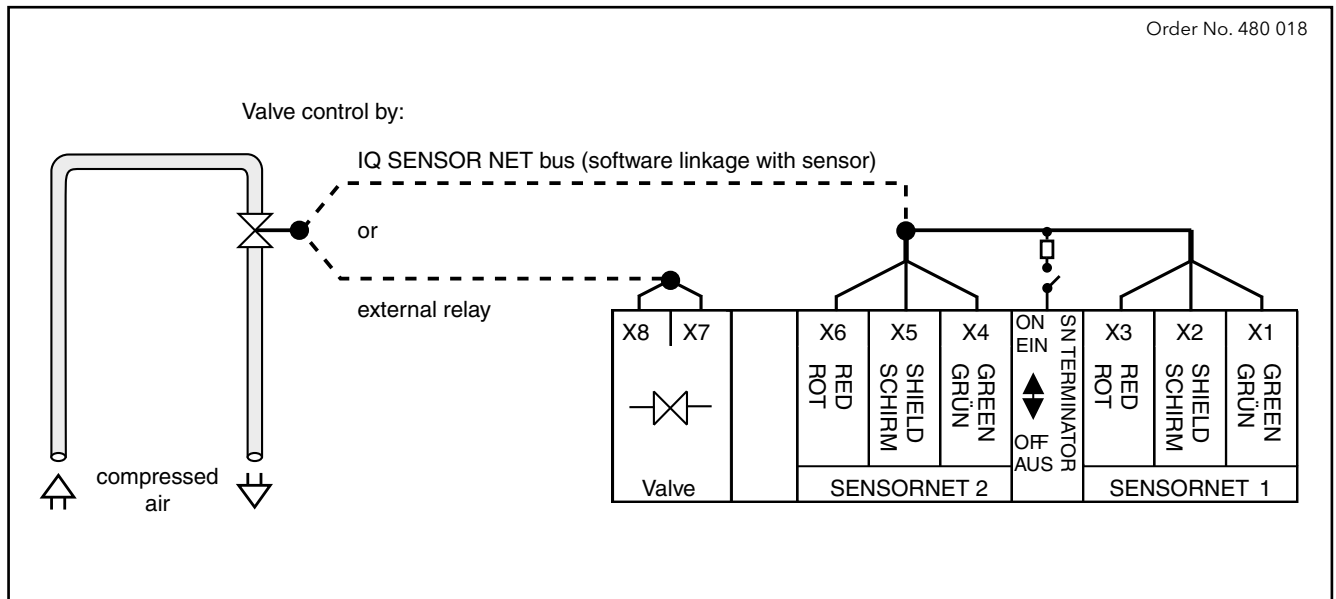
NitraLyt®Plus

NitraLyt®Plus System:



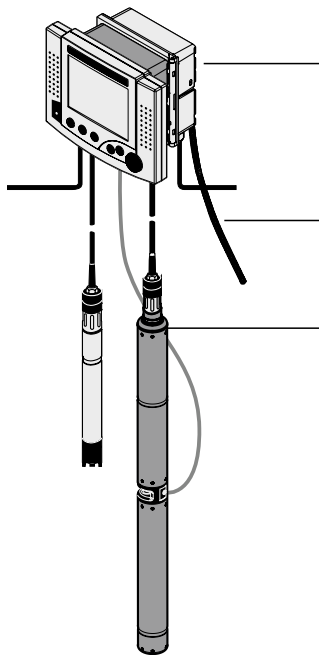
required components per measuring place: dark shaded

Electrical connections MIQ/CHV PLUS



Measuring Point Configuration spectral measuring techniques

NitraVis® (TS/NI) / NiCaVis® (NI) / UV 700 IQ NOx



NitraVis® (TS/NI)- / NiCaVis® (NI)- / UV 700 IQ NOx-System

IQ SENSOR NET

Optional air pressure cleaning:
MIQ/CHV PLUS Order No. 480 018
with external compressed air supply
3-5 bar or usage of Cleaning Air Box
Order No. 480 019

For both options please order
air pressure cleaning set SET/AP
Order No. 481075

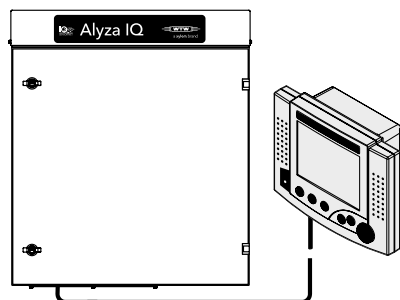
Optical Sensor:

- NitraVis 701/705 IQ
Order No. 481 044/481 046
- NitraVis* 701/705 IQ NI
Order No. 481 056/481 057
- NitraVis 701/705 IQ TS
Order No. 481 045/481 047
- NiCaVis 705 IQ
Order No. 481 052
- NiCaVis 701/705 IQ NI
Order No. 481 054/481 055
- UV 701/705 IQ NOx
Bestell-Nr. 481 034/ 481 035



required components per measuring
place: dark shaded

Measuring point configurations wet chemical measuring technique



System 2020

Example configuration

Alyza IQ NH4-112
Ammonium analyzer, 2-channel
MIQ/TC 2020 3G
Controller
MIQ-/JB
Junction Box
SNCIQ
Connection cable, 2 m
Reagents see previous pages
Filtration see previous pages

Order no.

825012

470020

480008

included in scope of delivery

i Alyza IQ provides 10 W to the IQ SENSOR NET

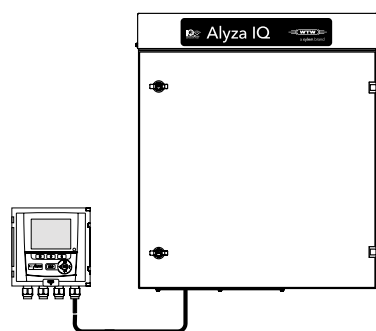
Nitrogen

Options

Alyza IQ NH4-111
Ammonium analyzer, 1-channel

Order no. 825011

The analyzers are optionally available without pump unit



System 282/284

Example configuration

Alyza IQ NH4-111
Ammonium analyzer, 1-channel
DIQ/S 282-CR3
Controller
SNCIQ
Connection cable, 2 m
Reagents see previous pages
Filtration see previous pages

Order no.

825011

472130

included in scope of delivery

i Alyza IQ provides 10 W to the IQ SENSOR NET

Optionen

Alyza IQ NH4-112
Ammonium analyzer, 2-channel

Order no. 825012

The analyzers are optionally available without pump unit

System Configurations Digital Systems

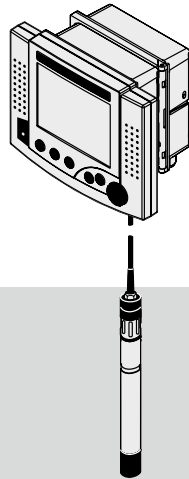
IQ SENSOR NET System 2020

Due to the diversity of system versions, only a small selection of representative configurations can be shown here by way of example.

Example 1 System 2020

Configuration Example Order No.

MIQ/TC 2020 3G-CR3	470 022
SACIQ-7,0	480 042
IQ Sensor	user selected



Starter Set
MIQ/TC 2020 3G-CR3
consisting of:

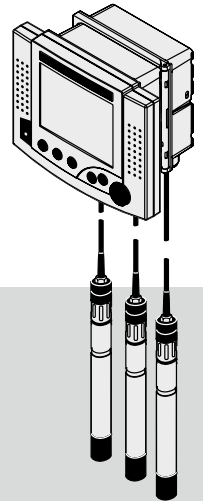
- MIQ/TC 2020 3G (Terminal/Controller)
 - MIQ/CR3 (3 x mA, 3 x relays)
 - MIQ/PS (power supply)
- additionally:
- 1 SACIQ (sensor cable)
 - 1 IQ sensor

Monitor
with 3 analog outputs and 3 relays, universally employ-
able for all parameters

Example 2 System 2020

Configuration Example Order No.

MIQ/TC 2020 3G-CR3	470 022
SACIQ-7,0	480 042
IQ Sensors	user selected



Starter Set
MIQ/TC 2020 3G-CR3
consisting of:

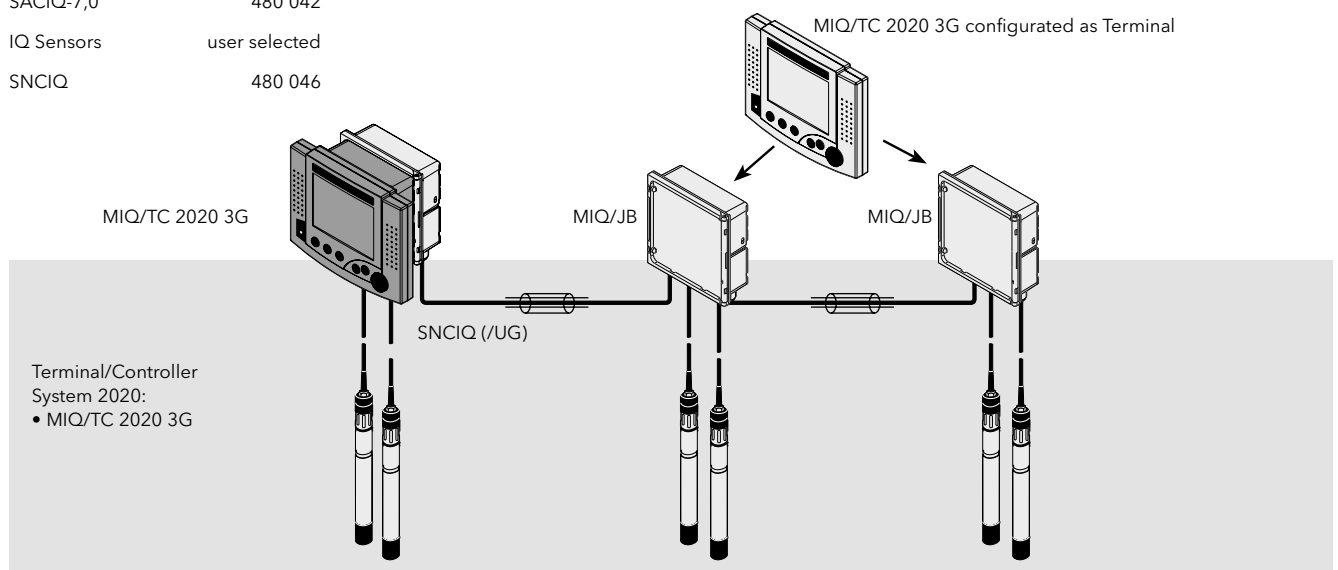
- MIQ/TC 2020 3G (Terminal/Controller)
 - MIQ/CR3 (3 x mA, 3 x Relays)
 - MIQ/PS (power supply)
- additionally:
- 3 SACIQ (sensor cable)
 - 3 IQ sensors

Multi-parameter monitor
for any 3 parameters, with 3 analog outputs and 3 relays

Example 3 System 2020

Configuration Example Order No.

MIQ/TC 2020 3G	470 020
MIQ/PS	480 004
MIQ/C6	480 015
MIQ/JB	480 008
SACIQ-7,0	480 042
IQ Sensors	user selected
SNCIQ	480 046



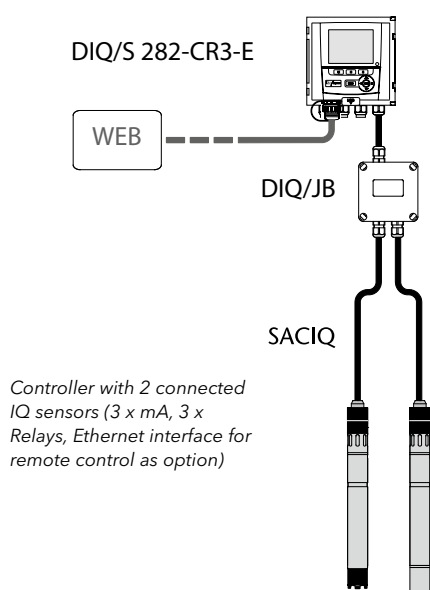
Branched system 2020 for up to any 20 parameters. System with 6 analog outputs; measuring locations 2 and 3 are at a large distance from controller. Extendable by the mobile MIQ/TC 2020 3G terminal that serves as an additional display unit for easy on-site calibration with redundant controller function.

System Configurations Digital Systems

IQ SENSOR NET System 281/282/284

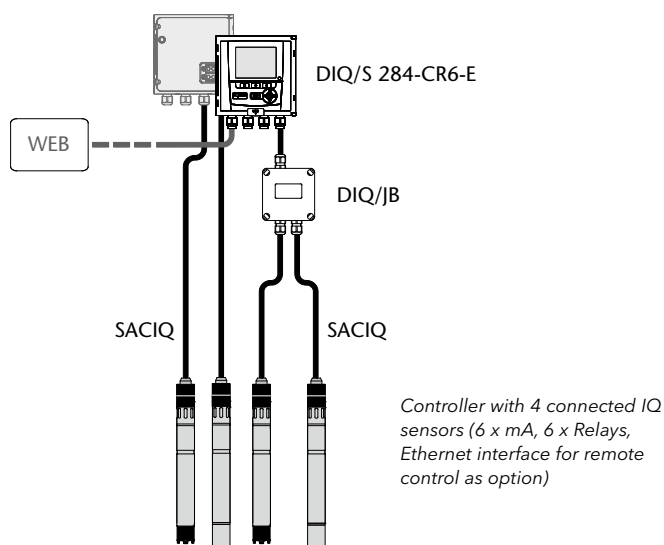
Example 1

Example with 2 IQ sensors	Order no.
DIQ/S 282-CR3-E	472 113
2 x SACIQ-7,0	480 042
DIQ/JB	472 005
2 x IQ sensors	user selected



Example 2

Example with 4 IQ sensors	Order no.
DIQ/S 284-CR6-E	472 133
4 x SACIQ-7,0	480 042
DIQ/JB	472 005
4 x IQ sensors	user selected



Controller is also available with PR- or MOD-interface.

Example 3

Example with 1 IQ Sensor	Order no.
DIQ/S 281-CR2	472103
1x SACIQ-7,0	480042
1x IQ-Sensor	user selected (accepted sensors for standard parameters)

Controller with 1 connected IQ sensor (2 x mA, 2 x relays)

DIQ/S 281-CR2



Carbon: COD/BOD/TOC/DOC/SAC/UVT

Sensors \ Parameter	TriOxmatic® 700/701/702 IQ (SW)	FDO® 700/701 IQ (SW)	Sensolyt® 700 IQ (SW)	TetraCon® 700 IQ (SW)	VisoTurb® 700 IQ (SW)	ViSolid® 700 IQ	Ammolyt® Plus 700 IQ	Nitralyt® Plus 700 IQ	VARiON® Plus 700 IQ	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	UV 701/705 IQ SAC	UV 701/705 IQ NOx	IFL 700 IQ	ColorVis 705 IQ	Alyza IQ PO ₄	Alyza IQ NH ₄
Usable with System 2020 and 282/284	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Usable with mit 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																				
TSS (optical)					●	●				●		●	●							
Nitrate (ion-selective)								●	●											
Nitrate (optical/spectral)										●	●		●	●		● ⁺				
COD (optical/spectral)												●	●	●						
BOD (optical/spectral)												●	●	●						
TOC (optical/spectral)												●	●	●						
DOC (optical/spectral)												●	●	●						
SAC (optical/spectral)												●	●	●	●					
UVT (optical/spectral)												●	●	●	●					

* When operating with System 282/284, the average power consumption can be used. Details see operating manual System 282/284

** Power supply: Alyza IQ PO₄ provides 10 W

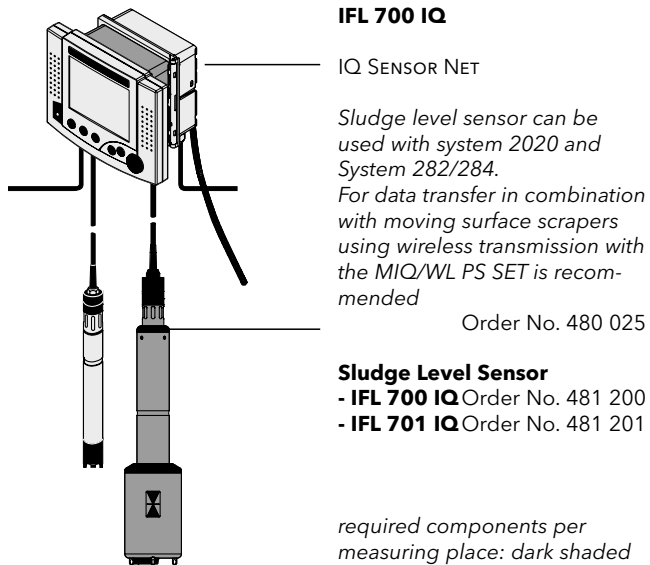
Model	Description	Order No.	
SAC/UVT Sensor			
UV 701 IQ SAC	Optical SAC and UVT sensor (254 nm), for measurement of higher concentrations in wastewater and surface water, with turbidity compensation and integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481036	OF
UV 705 IQ SAC	Optical SAC and UVT sensor (254 nm), for measurement of lower concentrations in wastewater and surface water, with turbidity compensation and integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481038	OF
Spectral Sensors Carbon			
CarboVis 701 IQ	Optical COD/TOC/DOC/BOD or SAC sensor (60 mm) with spectral processing of the UV-VIS range, for measurement in the inlet/effluent/BNR part of municipal wastewater treatment plants, with integrated integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481048	OF
CarboVis 701 IQ TS	Optical COD/TOC/DOC/BOD/SAC and TSS sensor (60 mm) with spectral processing of the UV-VIS range, for measurement in the inlet/effluent/aeration part of municipal wastewater treatment plants with integrated integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481049	OF
CarboVis 705 IQ	Optical COD/TOC/DOC/BOD or SAC sensor (60 mm) with spectral processing of the UV-VIS range, for measurement in the effluent of municipal wastewater treatment plants, with integrated integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481050	OF

Model		Description	Order No.	
CarboVis 705 IQ TS		Optical COD/TOC/DOC/BOD/SAC and TSS sensor (60 mm) with spectral processing of the UV-VIS range, for measurement in the effluent of municipal wastewater treatment plants, with integrated integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481051	OF
NiCaVis 705 IQ		Spectral UV-VIS sensor (60 mm) for measurement of Nitrate, CODtotal, CODsoluble, TOC, BOD, DOC, SACTotal, SACsoluble, and UVT254 , for measurement in the effluent of municipal wastewater treatment plants, with integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481052	OF
NiCaVis 705 IQ TS		Spectral UV-VIS sensor (60 mm) for measurement of Nitrate, CODtotal, CODsoluble, TOC, BOD, DOC, SACTotal, SACsoluble, UVT254 and TSS , for measurement in the effluent of municipal wastewater treatment plants, with integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481053	OF
NiCaVis 701 IQ NI		Spectral UV sensor (60 mm) for measurement of Nitrite, Nitrate, CODtotal, CODsoluble, TOC, BOD, DOC, SACTotal, SAC soluble, and UVT254 in the influent, biological tank and effluent of municipal waste water treatment plants, with integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481054	OF
NiCaVis 705 IQ NI		Spectral UV sensor (60 mm) for measurement of Nitrite, Nitrate, CODtotal, CODsoluble, TOC, BOD, DOC, SACTotal, SACsoluble, and UVT254 in the effluent of municipal waste water treatment plants, with integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481055	OF
CarboVis 705 IQ TS Co	New	Spectral UV-VIS probe for measuring color, CODtot, CODdiss., TOC, BOD, DOC, SACTot., SACdiss., UVT254 and TSS in a WWTP drain/outlet with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings (order SACIQ separately)	481065	OF
NiCaVis 705 IQ TS Co	New	Spectral UV-VIS probe for measuring color, nitrate, CODtot, CODdiss., TOC, BOD, DOC, SACTot., SACdiss. and UVT254 in a WWTP drain/outlet with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings (order SACIQ separately)	481066	OF
Spectral Sensors Carbon Surface Water				
NiCaVis 705 IQ SF		Spectral UV-VIS sensor (60 mm) for the measurement of Nitrate, COD, TOC, BOD, DOC, SAC, UVT254 and TS in surface water bodies with integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately)	481058	OF
NiCaVis® 705 IQ NI SF		Spectral UV-VIS sensor (60 mm) for the measurement of Nitrate, Nitrite, COD, TOC, BOD, DOC, SAC and UVT254 in surface water bodies with integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately)	481059	OF
NiCaVis 705 IQ SF Co	New	Spectral UV-VIS probe to measure Nitrate, Color, CODdiss., TOC, BOD, DOC, SAC and UVT254 in surface waters with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings (order SACIQ separately)	481060	OF
Accessories Spectral Sensors (Carbon)				
DIQ/CHV		Dual IQ/Cleaning Head Valve for automatic air cleaning controlled by a relay, for system 281/282/284, (relay and compressed air supply external)	472007	OH
Cleaning Air Box - 115 VAC		Air pressure compressor for online sensors. For easy wall mounting, switchable by a relay to provide cleaning systems with air pressure. 115 VAC. No additional CHV PLUS needed.	480017	OH
MIQ/CHV PLUS		Module IQ/Cleaning Head Valve, for automatic air cleaning controlled by a relay or the IQ SENSOR NET (relay and compressed air supply external)	480018	OH
Cleaning Air Box - 230 VAC		Air pressure compressor for online sensors. For easy wall mounting, switchable by a relay to provide cleaning systems with air pressure. 230 VAC. No additional CHV PLUS needed.	480019	OH
VIS FT-1		Flow-through measuring cell for spectral UV and UV-VIS sensors, for operation with automatic compressed air cleaning	480080	OH
VIS FT-1/RS		Spare part set for flow-thru measuring cell VIS FT-1	480081	OH
VIS/CT		Universal cleaning tool for spectral sensors.	481071	OH
VIS/CV		Multifunctional slide for spectral sensors.	481074	OH
SET/AP		Air pressure cleaning set for spectral sensors: Supplied with 15 m (49 ft) tubing, fittings, without further modules and components.	481075	OH
ST-1		Standard with low concentration for 5 mm spectral sensors.	481077	OH
ST-2		Standard with high concentration for 1 mm spectral sensors.	481078	OH
VIS/CS		Universal cleaning tool set for cleaning of measuring windows of spectral sensors with cleaning solutions.	481079	OH

Measuring Point Configuration and Configuration Examples

Example 1

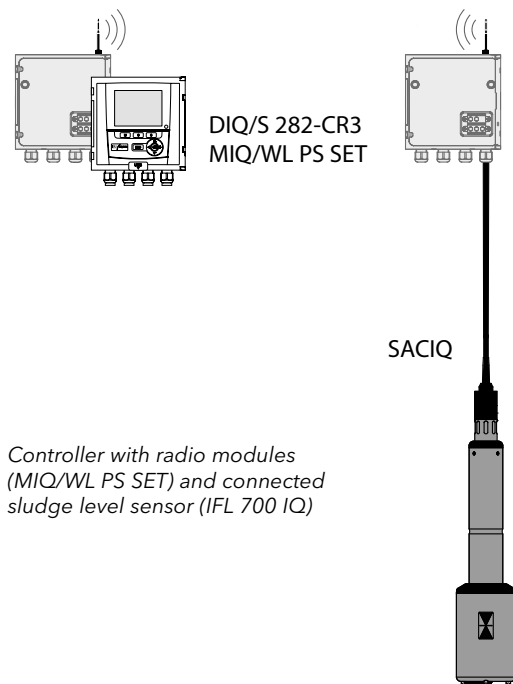
System 2020 with sludge level measurement



Example 2

System 282/284 with sludge level measurement

DIQ/S 282-CR3	472 110
1 x MIQ/WL PS SET	480 025
1 x SACIQ-7,0	472 042
IFL 700 IQ	481 200



Detailed technical data can be found in the brochure "**Data sheets process instrumentation**" (999266US); also available on our homepage www.xylemanalytics.com/en under Customer Support/Downloads/Datasheets.

Phosphate

Sensors	TriOxmatic® 700/701/702 IQ (SW)	FDO® 700/701 IQ (SW)	Sensolyt® 700 IQ (SW)	TetraCon® 700 IQ (SW)	VisoTurb® 700 IQ (SW)	ViSolid® 700 IQ	Ammolyt® Plus 700 IQ	Nitralyt® Plus 700 IQ	VARiON® Plus 700 IQ	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	UV 701/705 IQ SAC	UV 701/705 IQ NOx	IFL 700 IQ	ColorVis 705 IQ	Alyza IQ PO ₄	Alyza IQ NH ₄
Parameter																				
Usable with System 2020 and 282/284	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Usable with mit 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																				
Orthophosphate (opt./wet chem.)																			●	

* When operating with System 282/284, the average power consumption can be used. Details see operating manual System 282/284

** Power supply: Alyza IQ PO₄ provides 10 W

Phosphate

Model	Description	Order No.	
Alyza IQ Orthophosphate			
Alyza IQ PO4-110	Orthophosphate analyzer Alyza IQ PO4 for the IQ SENSOR NET, Measurement range 1, 1-channel w/o pump. Scope of delivery: Orthophosphate analyzer for indoor and outdoor use, spare parts for the first year, pre-installed 2 m SNCIQ and power cables (please order controller and reagents separately).	825510	OK
Alyza IQ PO4-111	Orthophosphate analyzer Alyza IQ PO4 for the IQ SENSOR NET, Measurement range 1, 1-channel with pump. Scope of delivery: Orthophosphate analyzer for indoor and outdoor use, spare parts for the first year, pre-installed 2 m SNCIQ and power cables (please order controller and reagents separately).	825511	OK
Alyza IQ PO4-112	Orthophosphate analyzer Alyza IQ PO4 for the IQ SENSOR NET, Measurement range 1, 2-channel with 2 pumps. Scope of delivery: Orthophosphate analyzer for indoor and outdoor use, spare parts for the first year, pre-installed 2 m SNCIQ and power cables (please order controller and reagents separately).	825512	OK
Alyza IQ PO4-120	Orthophosphate analyzer Alyza IQ PO4 for the IQ SENSOR NET, Measurement range 2, 1-channel w/o pump. Scope of delivery: Orthophosphate analyzer for indoor and outdoor use, spare parts for the first year, pre-installed 2 m SNCIQ and power cables (please order controller and reagents separately).	825520	OK
Alyza IQ PO4-121	Orthophosphate analyzer Alyza IQ PO4 for the IQ SENSOR NET, Measurement range 2, 1-channel with pump. Scope of delivery: Orthophosphate analyzer for indoor and outdoor use, spare parts for the first year, pre-installed 2 m SNCIQ and power cables (please order controller and reagents separately).	825521	OK
Alyza IQ PO4-122	Orthophosphate analyzer Alyza IQ PO4 for the IQ SENSOR NET, Measurement range 2, 2-channel with 2 pumps. Scope of delivery: Orthophosphate analyzer for indoor and outdoor use, spare parts for the first year, pre-installed 2 m SNCIQ and power cables (please order controller and reagents separately).	825522	OK

Model	Description	Order No.	
Consumables Alyza IQ PO4			
Filter-REP	Replacement air filter for fan of Alyza IQ and P 700 IQ	821969	OI
MPV-1	Multiport valve for Alyza IQ	827000	OK
TubingSet PO4	Set Tubings PO4 with sample contact	827101	OK
Syringe Pump Set	Spareparts syringe pump	827170	OK
R-PO4/1-1A	Reagent 1A for PO4 measurement range 1 (0.02 ... 15.00 mg/L PO4-P) Alyza IQ	827520	OK
R-PO4/1-1B	Reagent 1B for PO4 measurement range 1 (0.02 ... 15.00 mg/L PO4-P) Alyza IQ	827521	OK
R-PO4/1-2A	Reagent 2A for PO4 measurement range 2 (0.2 ... 50.0 mg/L PO4-P) Alyza IQ	827522	OK
R-PO4/1-2B	Reagent 2B for PO4 measurement range 2 (0.2 ... 50.0 mg/L PO4-P) Alyza IQ	827523	OK
S-PO4/1-0.0	Standard solution 0.0 mg/l PO4-P Alyza IQ	827526	OK
S-PO4/1-1.0	Standard solution 1.0 mg/l PO4-P Alyza IQ	827527	OK
S-PO4/1-10.0	Standard solution 10.0 mg/l PO4-P Alyza IQ	827528	OK
S-PO4/1-40.0	Standard solution 40.0 mg/l PO4-P Alyza IQ	827529	OK
C-PO4/1-1	Cleaning solution Alyza IQ PO4	827533	OK
R-Set PO4/1-1	Reagent set PO4 measurement range 1 (0.02 ... 15.00 mg/L PO4-P) consisting of reagent 1A, 1B for analyzer Alyza IQ	827550	OK
R-Set PO4/1-2	Reagent set for PO4 measurement range 2 (0.2 ... 50.0 mg/L PO4-P) consisting of reagent 2A, 2B for analyzer Alyza IQ	827551	OK
SC-Set PO4/1-1_0/1	Set consisting of cleaning solution and standard solutions 0.0/1.0 mg/l PO4-P for analyzer Alyza IQ PO4	827555	OK
SC-Set PO4/1-1_0/10	Set consisting of cleaning solution and standard solutions 0.0/10.0 mg/l PO4-P for analyzer Alyza IQ PO4	827556	OK
SC-Set PO4/1-2_10/40	Set consisting of cleaning solution and standard solutions 0.0/40.0 mg/l PO4-P for analyzer Alyza IQ PO4	827557	OK
Filtration Alyza IQ PO4			
FM/PC	Filter membrane module FM-Case/PC with premounted membrane. Suitable for Alyza IQ and P 700 IQ	821939	OK
Filter/PC	Filter module for housing FM-Case/PC. Suitable for Alyza IQ and P 700 IQ	821940	OI
FM-Case/PC	Housing for filter module Filter/PC. Suitable for Alyza IQ and P 700 IQ	821941	OI
SH-5	Intake line with slide fo Alyza IQ, unheated, 5 m (16.4 ft)	822201	OK
SH-10	Intake line with slide fo Alyza IQ, unheated, 10 m (32.8 ft)	822202	OK
SH-15	Intake line with slide for Alyza IQ, unheated, 15 m (49.2 ft)	822203	OK
SH-20	Intake line with slide fo Alyza IQ, unheated, 20 m (65.6 ft)	822204	OK
SH 120-5	Intake line with slide fo Alyza IQ, heated, 120 VAC, 5 m (16.4 ft)	822211	OK
SH 120-10	Intake line with slide fo Alyza IQ, heated, 120 VAC, 10 m (32.8 ft)	822212	OK
SH 120-15	Intake line with slide fo Alyza IQ, heated, 120 VAC, 15 m (49.2 ft)	822213	OK
SH 120-20	Intake line with slide fo Alyza IQ, heated, 120 VAC, 20 m (65.6 ft)	822214	OK
SH 240-5	Intake line with slide fo Alyza IQ, heated, 240 VAC, 5 m (16.4 ft)	822221	OK
SH 240-10	Intake line with slide fo Alyza IQ, heated, 240 VAC, 10 m (32.8 ft)	822222	OK
SH 240-15	Intake line with slide fo Alyza IQ, heated, 240 VAC, 15 m (49.2 ft)	822223	OK
SH 240-20	Intake line with slide fo Alyza IQ, heated, 240 VAC, 20 m (65.6 ft)	822224	OK
RH-0.5	Return line, unheated, 0.5 m (1.6 ft)	822228	OK
RH-1	Return line, unheated, 1 m (3.3 ft)	822229	OK
RH-2	Return line, unheated, 2 m (6.6 ft)	822230	OK
RH-5	Return line, unheated, 5 m (16.4 ft)	822231	OK
RH-10	Return line, unheated, 10 m (32.8 ft)	822232	OK
RH-15	Return line, unheated, 15 m (49.2 ft)	822233	OK
RH-20	Return line, unheated, 2 m (65.6 ft)	822234	OK
RH 120-0.5	Return line, heated, 120 VAC, 0.5 m (1.6 ft)	822238	OK
RH 120-1	Return line, heated, 120 VAC, 1 m (3.2 ft)	822239	OK
RH 120-2	Return line, heated, 120 VAC, 2 m (6.6 ft)	822240	OK
RH 120-5	Return line, heated, 120 VAC, 5 m (16.4 ft)	822241	OK
RH 120-10	Return line, heated, 120 VAC, 10 m (32.8 ft)	822242	OK
RH 120-15	Return line, heated, 120 VAC, 15 m (49.2 ft)	822243	OK
RH 120-20	Return line, heated, 120 VAC, 20 m (65.6 ft)	822244	OK
RH 240-0.5	Return line, heated, 240 VAC, 0.5 m (1.6 ft)	822248	OK
RH 240-1	Return line, heated, 240 VAC, 1 m (3,3 ft)	822249	OK
RH 240-2	Return line, heated, 240 VAC, 2 m (6.6 ft)	822250	OK
RH 240-5	Return line, heated, 240 VAC, 5 m (16.4 ft)	822251	OK
RH 240-10	Return line, heated, 240 VAC, 10 m (32.8 ft)	822252	OK
RH 240-15	Return line, heated, 240 VAC, 15 m (49.2 ft)	822253	OK
RH 240-20	Return line, heated, 240 VAC, 20 m (65.6 ft)	822254	OK

Model	Description	Order No.	
Accessories Alyza IQ PO4			
FM-B	Cleaning brush for filter membrane module	821968	OX
FM-Adapter	Adapter for horizontal mounting of filter membrane module FM	821983	OI
M-EXT 1.5	Extension for attachment M 1.5. Included: Extension 1.5 m, chain, bracket	821985	OI
M 1.5	Attachment for filtration. Included: Rail 1.5 m (4.9 ft), chain, bracket	821986	OI
RM	Rail mount for Alyza IQ and P 700 IQ	821988	OK
WM	Wall mount for Alyza IQ and P 700 IQ	821989	OI
SM	Stand mount for Alyza IQ and P 700 IQ	821991	OI
TM	Accessory for mounting of IQ SENSOR NET components on Alyza IQ. Sun shield needs to be ordered separately.	822000	OK
Overflow Vessel	Overflow vessel incl. overflow tubing	827180	OK
Filtration Pump	Filtration pump for Alyza IQ incl. connecting tube	827185	OK
Check valve	Check valve Alyza IQ, for retrofitting at a head > 5 m	827186	OK
WF Set	Waste funnel set for the separate collection of reagent containing waste	827187	OK
PurCon ACS	Adapter for sample transportation from PurCon® to Alyza IQ	827188	OK
Conversion kit PO4 MB1	Conversion kit Alyza IQ PO4 MB2 to MB1	827190	OK
Conversion kit PO4 MB2	Conversion kit Alyza IQ PO4 MB1 to MB2	827191	OK

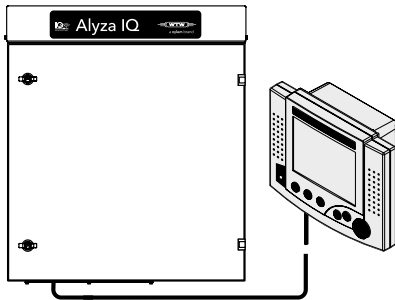


Accessories and consumables to measure orthophosphate with the P 700 IQ and TresCon® can be found in chapter „Additional Products“.



Detailed technical data can be found in the brochure "**Data sheets process instrumentation**" (999266US); also available on our homepage www.xylymanalytics.com/en under Customer Support/Downloads/Datasheets.

Measuring Point Configuration



System 2020

Example configuration

Alyza IQ PO4-112
 Orthophosphate analyzer, 2-channel, measuring range 1
 MIQ/TC 2020 3G
 Controller
 MIQ-/JB
 Junction Box
 SNCIQ
 Connection cable, 2 m
 Reagents see previous pages
 Filtration see previous pages

Order no.

825512

470020

480008

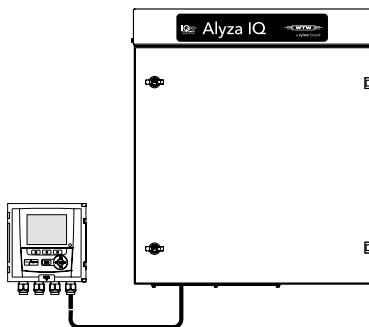
included in scope of delivery

i Alyza IQ provides 10 W to the IQ SENSOR NET

Options

Alyza IQ PO4-122 Orthophosphate analyzer, 2-channel, measuring range 2	Order no. 825522
Alyza IQ PO4-111 Orthophosphate analyzer, 1-channel, measuring range 1	Order no. 825511
Alyza IQ PO4-121 Orthophosphate analyzer, 1-channel, measuring range 2	Order no. 825521

The analyzers are optionally available without pump unit



System 282/284

Example configuration

Alyza IQ PO4-111
 Orthophosphate analyzer, 1-channel, measuring range 1
 DIQ/S 282-CR3
 Controller
 SNCIQ
 Connection cable, 2 m
 Reagents see previous pages
 Filtration see previous pages

Order no.

825511

472130

included in scope of delivery

i Alyza IQ provides 10 W to the IQ SENSOR NET

Optionen

Alyza IQ PO4-121 Orthophosphate analyzer, 1-channel, measuring range 2	Order no. 825521
Alyza IQ PO4-112 Orthophosphate analyzer, 2-channel, measuring range 1	Order no. 825512
Alyza IQ PO4-122 Orthophosphate analyzer, 2-channel, measuring range 2	Order no. 825522

The analyzers are optionally available without pump unit

Sludge Level

Sensors Parameter	TriOxmatic® 700/701/702 IQ (SW)	FDO® 700/701 IQ (SW)	Sensolyt® 700 IQ (SW)	TetraCon® 700 IQ (SW)	VisoTurb® 700 IQ (SW)	ViSolid® 700 IQ	Ammolyt® Plus 700 IQ	Nitralyt® Plus 700 IQ	VARiON® Plus 700 IQ	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	UV 701/705 IQ SAC	UV 701/705 IQ NOx	IFL 700 IQ	ColorVis 705 IQ	Alyza IQ PO ₄	Alyza IQ NH ₄
Usable with System 2020 and 282/284	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Usable with mit 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																				
Sludge Level																	●			

* When operating with System 282/284, the average power consumption can be used. Details see operating manual System 282/284

** Power supply: Alyza IQ PO₄ provides 10 W



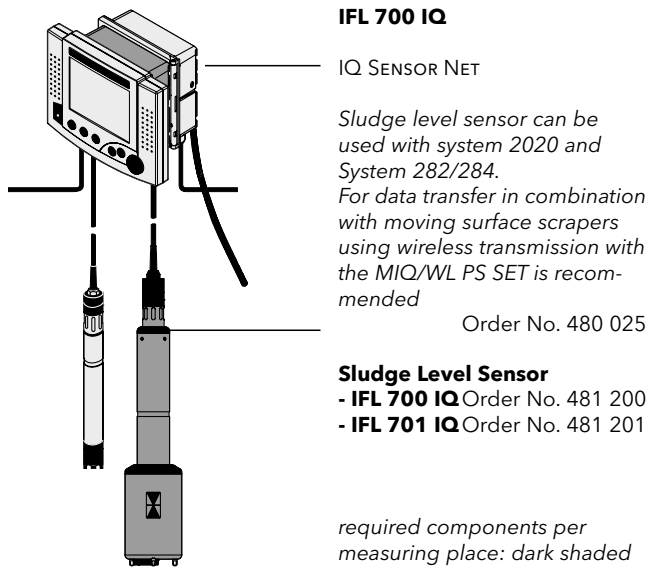
Detailed technical data can be found in the brochure **"Data sheets process instrumentation"** (999266US); also available on our homepage www.xylenanalytics.com/en under Customer Support/Downloads/Datasheets.

Model	Description	Order No.	
Sludge Level Sensors			
IFL 700 IQ	Digital ultrasonic sensor (60 mm) with automatic cleaning for interface level detection. Included: Sensor without sensor connection cable (please order SACIQ separately)	481200	OH
Accessories Sludge Level			
IFL-E	Deflector armature for IFL 700 IQ and IFL 701 IQ for application with surface skimmers	481206	OB
IFL-RM	Rail mount for interface level sensors IFL 700 IQ and IFL 701 IQ in combination with deflector armature IFL-E. (EH/WT-D30, IFL-E please order separately)	481207	OB

Measuring Point Configuration and Configuration Examples

Example 1

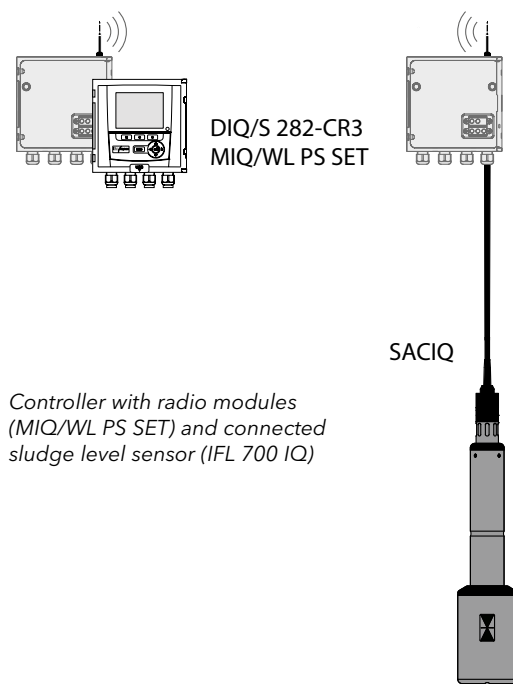
System 2020 with sludge level measurement



Example 2

System 282/284 with sludge level measurement

DIQ/S 282-CR3	472 110
1 x MIQ/WL PS SET	480 025
1 x SACIQ-7,0	472 042
IFL 700 IQ	481 200



Color

Sensors	Parameter														
	TriOxmatic® 700/701/702 IQ (SW)	FDO® 700/701 IQ (SW)	Sensolyt® 700 IQ (SW)	TetraCon® 700 IQ (SW)	VisoTurb® 700 IQ (SW)	ViSolid® 700 IQ	Ammolyt® Plus 700 IQ	Nitralyt® Plus 700 IQ	VARiON® Plus 700 IQ	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	UV 701/705 IQ SAC
Usable with System 2020 and 282/284	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Usable with mit 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*
Parameter															
Color (optical /spectral)												●	●		●

* When operating with System 282/284, the average power consumption can be used. Details see operating manual System 282/284

** Power supply: Alyza IQ PO₄ provides 10 W



Accessories and configuration examples can be found in the chapter "Nitrogen"



Detailed technical data can be found in the brochure „**Data sheets process instrumentation**“ (999266US); also available on our homepage www.xylenanalytics.com/en under Customer Support/Downloads/Datasheets..

Model	Description	Order No.	
Spectral Sensors Color			
NiCaVis 705 IQ SF Co	New Spectral UV-VIS probe to measure Nitrate, Color, CODdiss., TOC, BOD, DOC, SAC and UVT254 in surface waters with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings (order SACIQ separately)	481060	OF
CarboVis 705 IQ TS Co	New Spectral UV-VIS probe for measuring color, CODtot, CODdiss., TOC, BOD, DOC, SACTot., SACdiss., UVT254 and TSS in a WWTP drain/outlet with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings (order SACIQ separately)	481065	OF
NiCaVis 705 IQ TS Co	New Spectral UV-VIS probe for measuring color, nitrate, CODtot, CODdiss., TOC, BOD, DOC, SACTot., SACdiss. and UVT254 in a WWTP drain/outlet with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings (order SACIQ separately)	481066	OF
ColorVis 705 IQ	New Spectral UV-VIS probe for measuring color (Hazen 340, 390, 445, 455, 465, ISO 410) with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings (order SACIQ separately)	481067	OF

IQ SENSOR NET

Sensors \ Parameter	TriOxmatic® 700/701/702 IQ (SW)	FDO® 700/701 IQ (SW)	Sensolyt® 700 IQ (SW)	TetraCon® 700 IQ (SW)	VisoTurb® 700 IQ (SW)	ViSolid® 700 IQ	Ammolyt® Plus 700 IQ	NitraLyt® Plus 700 IQ	VARI-ON® Plus 700 IQ	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	UV 701/705 IQ SAC	UV 701/705 IQ NOx	IFL 700 IQ	ColorVis 705 IQ	Alyza IQ PO ₄	Alyza IQ NH ₄
Usable with System 2020 and 282/284	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Usable with mit 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	●	●	●	●			●	●	●											
Diss. Oxygen (electrochem.)	●																			
Diss. Oxygen (optical)		●																		
pH			●																	
ORP			●																	
Conductivity				●																
Salinity				●																
TDS				●																
Turbidity (optical)					●															
TSS (optical)					●	●				●		●	●							
Ammonium (ion-selective)							●		●											
Ammonium (wet chemical)																				●
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 (opt./wet chem.)																			●	
Color (optical/spectral)												●	●					●		

* When operating with System 282/284, the average power consumption can be used. Details see operating manual System 282/284

** Power supply: Alyza IQ PO₄ provides 10 W

† NO₂-N is included in the measurement result

To connect analog sensors, use special junction boxes (see section accessories)

Model	Description	Order No.	
IQ Sensors for Systems 282/284 and 2020, Connection cables			
Dissolved Oxygen			
TriOxmatic® 700 IQ	Universal digital D.O. sensor for monitoring/controlling O ₂ input in wastewater treatment plants for use with IQ SENSOR NET. Supplied with accessory kit (ZBK 600) comprising: 2 exchange membrane heads (WP 600/2), 50 ml electrolyte solution (ELY/A), 50 ml cleaning solution (RL-AG/Oxi), 1x cathode cleaner (SF 300), without connection cable (SACIQ order separately)	201640	OH
TriOxmatic® 700 IQ SW	Universal digital D.O. sensor for monitoring/controlling the O ₂ input, in sea water design, for use with IQ SENSOR NET. Supplied with accessory kit (ZBK 600) comprising: 2 exchange membrane heads (WP 600/2), 50 ml electrolyte solution (ELY/A), 50 ml cleaning solution (RL-AG/Oxi), 1 x cathode cleaner (SF 300), without connection cable (SACIQ order separately)	201641	OH
TriOxmatic® 701 IQ	Fast response time digital D.O. sensor for use in wastewater treatment plants, e.g. denitrification, for use with IQ SENSOR NET. Supplied with accessory kit (ZBK 25i) comprising: 2 exchange membrane heads (WP?25i/2), 50 ml electrolyte solution (ELY/A), 50 ml cleaning solution (RL-AG/Oxi), 1x cathode cleaner (SF 300), without connection cable (SACIQ order separately)	201644	OH
TriOxmatic® 702 IQ	Digital D.O. sensor for trace level measurements in the ppb range, e.g. ultrapure water/boiler feed water, for use with IQ SENSOR NET. Supplied with accessory kit (ZBK 25i) comprising: 2 exchange membrane heads (WP?25i/2), 50 ml electrolyte solution (ELY/A), 50 ml cleaning solution (RL-AG/Oxi), 1x cathode cleaner (SF 300), without connection cable (SACIQ order separately)	201646	OH
FDO 700 IQ	Digital calibration free optical D.O. sensor (universal use). Optimized for monitoring/controlling the O ₂ input in wastewater treatment plants, for use with IQ SENSOR NET. Factory calibrated system composed of sensor FDO® 700 IQ and membrane cap SC-FDO® 700, without connection cable (SACIQ order separately)	201650	OH
FDO® 700 IQ SW	Digital calibration free optical D.O. sensor (universal use). Optimized for measuring and controlling the O ₂ input in seawater applications, for use with IQ SENSOR NET. Factory calibrated system composed of sensor FDO® 700 IQ SW, membrane cap SC-FDO® 700 and protective cap MSK FDO®, without connection cable (SACIQ order separately).	201652	OH
FDO 701 IQ SW	Digital calibration free optical D.O. sensor with fast response time (universal use). Optimized for measuring/controlling the O ₂ input in seawater applications, for use with IQ SENSOR NET. Factory calibrated system composed of sensor FDO® 700 IQ SW, membrane cap SC-FDO® 701 and protective cap MSK FDO®, without connection cable (SACIQ order separately)	201653	OH
FDO 701 IQ	Digital calibration free optical D.O. sensor with fast response time (universal use). Optimized for monitoring/controlling the O ₂ input in waste water treatment plants, for use with IQ SENSOR NET. Factory calibrated system composed of sensor FDO® 700 IQ and membrane cap SC-FDO® 701, without connection cable (SACIQ order separately).	201660	OH
pH/ORP			
Sensolyt® TFA	pH combination electrode especially suited for industrial or not typical municipal wastewater, with armouring for use in Sensolyt® sensors. With watertight S7 plug head (IP 67); measuring range 2 ... 12 pH	109114	OI
Sensolyt® SEA	pH combination electrode especially suited for measurements in heavily polluted wastewater, with armouring for use in Sensolyt® sensors. With watertight S7 plug head (IP 67); measuring range 0 ... 12 pH	109115	OI
Sensolyt® ECA	pH combination electrode esp. suited for normally polluted wastewater (e.g. municipal wastewater) with armouring for use in Sensolyt® sensors. With watertight S7 plug head (IP 67); measuring range 0 ... 12 pH	109117	OI
Sensolyt® SEA-HP	pH combination electrode with optimized armouring for use under high pressure/temperature conditions, for installation in Sensolyt® sensors. With watertight S7 plug head (IP 67); measuring range 4 ... 12 pH	109118	OE
Sensolyt® DWA	pH combination electrode especially for drinking water applications, for installation in sensors of Sensolyt® 650/690/700 (IQ) series. With watertight S7 plug head (IP 67); measuring range 0 ... 14 pH	109119	OI
Sensolyt® PtA	ORP combination electrode especially suited for measurements in heavily polluted wastewater, for installation in Sensolyt® sensors. With watertight S7 plug head (IP 67); measuring range - 2000 ... + 2000 mV	109125	OE
Sensolyt PtFA	New ORP combination electrode especially suited for industrial or not typical municipal wastewater, for installation in Sensolyt® sensors. With watertight S7 plug head (IP 67); measuring range - 2000 ... + 2000 mV	109126	OE
Sensolyt® 700 IQ	Robust digital pH/ORP sensor for pH/ORP electrodes Sensolyt® SEA/DWA/ECA/PtA for use with the IQ SENSOR NET. With built-in pre-amplifier and temperature sensor (NTC), with SensCheck function, without connection cable (please order SACIQ separately)	109170	OH
Sensolyt® 700 IQ SW	Robust digital pH/ORP sensor for Sensolyt® SEA/ DWA/ECA/PtA pH/ORP electrodes, in sea water design, for use with the IQ SENSOR NET. With built-in pre-amplifier and temperature sensor (NTC), with SensCheck function, without connection cable (please order SACIQ separately)	109171	OH
Sensolyt® 700 IQ/SET	Robust digital pH/ORP sensor (Sensolyt® 700 IQ) including pH electrode (Sensolyt® SEA) and 7 m (23 ft) sensor adapter cable (SACIQ-7,0)	109173	OH
Sensolyt® 700 IQ/SET1	Robust digital pH/ORP sensor (Sensolyt® 700 IQ) including ORP electrode (Sensolyt® PtA) and 7 m (23 ft) sensor adapter cable (SACIQ-7,0)	109174	OH

Model	Description	Order No.	
Conductivity			
TetraCon® 700 IQ	Digital 4 electrode conductivity cell, especially for heavily polluted wastewater, for use with the IQ SENSOR NET System. With integrated temperature sensor, without cable (Please order SACIQ separately)	302500	OH
TetraCon® 700 IQ SW	Digital 4 electrode conductivity cell, in seawater design, suited for heavily polluted water, for use with the IQ SENSOR NET. With integrated temperature sensor, without cable (Please order SACIQ separately)	302501	OH
Turbidity/Suspended Solids			
VisoTurb® 700 IQ	Digital turbidity sensor for drinking water/water and wastewater (ultrasonic cleaning) for use with the IQ SENSOR NET system. Please order connection cable SACIQ separately.	600010	OH
VisoTurb® 700 IQ SW	Digital turbidity sensor for industrial and seawater applications (ultrasonic cleaning) for use with the IQ SENSOR NET system. Please order connection cable separately.	600011	OH
ViSolid® 700 IQ	Digital suspended solids sensor for water/wastewater/sludge (ultrasonic cleaning) for use with the IQ SENSOR NET system. Please order connection cable SACIQ separately.	600012	OH
ViSolid® 700 IQ SW	Digital suspended solids sensor for industrial and seawater applications (ultrasonic cleaning) for use with the IQ SENSOR NET system. Please order connection cable separately.	600013	OH
Ammonium (optical/wetchemical)			
Alyza IQ NH4-110	Ammonium analyzer Alyza IQ NH4 for the IQ SENSOR NET, Measurement range 1 and 2, 1-channel w/o pump. Scope of delivery: Ammonium analyzer for indoor and outdoor use, spare parts for the first year, pre-installed 2 m SNCIQ and power cable (please order controller and reagents separately).	825010	OK
Alyza IQ NH4-111	Ammonium analyzer Alyza IQ NH4 for the IQ SENSOR NET, Measurement range 1 and 2, 1-channel with pump. Scope of delivery: Ammonium analyzer for indoor and outdoor use, spare parts for the first year, pre-installed 2 m SNCIQ and power cable (please order controller and reagents separately).	825011	OK
Alyza IQ NH4-112	Ammonium analyzer Alyza IQ NH4 for the IQ SENSOR NET, Measurement range 1 and 2, 2-channel with two pumps. Scope of delivery: Ammonium analyzer for indoor and outdoor use, spare parts for the first year, pre-installed 2 m SNCIQ and power cable (please order controller and reagents separately).	825012	OK
Combination sensor for ammonium and nitrate (ISE)			
VARiON®Plus 700 IQ	Robust digital sensor for the ion-selective measurement (in-situ) of ammonium and nitrate, for use with the IQ SENSOR NET system. Supplied with: Sensor VARiON®Plus 700 IQ with 4 blind plugs and protective head. Please order electrodes separately.	107040	OH
VARiON®Plus A comp SET NH4	Robust digital sensor for ion-selective measurement of ammonium and nitrate (in-situ) for use with the IQ SENSOR NET system. Supplied with: Sensor VARiON®Plus 700 IQ, reference electrode VARiON® Ref, ammonium electrode VARiON®Plus NH4 and compensation electrode VARiON®Plus K (potassium). Please order SACIQ cable separately.	107060	OH
VARiON®Plus N comp SET NO3	Robust digital Sensor for ion-selective measurement of ammonium and nitrate (in-situ) for use with the IQ SENSOR NET system. Supplied with: Sensor VARiON®Plus 700 IQ, reference electrode VARiON® Ref, nitrate electrode VARiON®Plus NO3 and compensation electrode VARiON®Plus Cl (chloride). Please order SACIQ cable separately.	107062	OH
VARiON®Plus AN/A comp SET NH4 & NO3	Robust digital sensor for ion-selective measurement of ammonium and nitrate (in-situ) for use with the IQ SENSOR NET system. Supplied with: Sensor VARiON®Plus 700 IQ, reference electrode VARiON® Ref, measuring electrodes VARiON®Plus NH4 and VARiON®Plus NO3, compensation electrode VARiON®Plus K (potassium). Please order SACIQ cable separately.	107066	OH
VARiON®Plus AN/N comp SET NH4 & NO3	Robust digital sensor for ion-selective measurement of ammonium and nitrate (in-situ) for use with the IQ SENSOR NET system. Supplied with: Sensor VARiON®Plus 700 IQ, reference electrode VARiON® Ref, measuring electrodes VARiON®Plus NH4 and VARiON®Plus NO3, compensation electrode VARiON®Plus Cl (chloride). Please order SACIQ cable separately.	107068	OH
Ammonium (ISE)			
AmmoLyt® Plus 700 IQ	Robust digital ammonium sensor for ion-selective electrodes (in-situ measuring), for use with the IQ SENSOR NET system. With built-in lightning protection, pre-amplifier and temperature sensor. Not included: Electrodes VARiON® Ref, VARiON®Plus NH4, VARiON®Plus K and SACIQ connection cable (Please order separately).	107070	OH
AmmoLyt® Plus SET/Comp	Robust digital ammonium sensor for ion-selective electrodes (in-situ measuring), for use with the IQ SENSOR NET system, delivered with VARiON® Ref, VARiON®Plus NH4 and VARiON®Plus K electrodes. With built-in lightning protection, pre-amplifier and temperature sensor. Not included: SACIQ connection cable (Please order separately).	107072	OH

Model	Description	Order No.	
Nitrate (ISE)			
NitraLyt®Plus 700 IQ	Robust digital nitrate sensor for ion-selective electrodes (in-situ measuring), for use with the IQ SENSOR NET system. With built-in lightning protection, pre-amplifier and temperature sensor. Not included: Electrodes VARiON® Ref, VARiON®Plus NO3, VARiON®Plus Cl and SACIQ connection cable (Please order separately).	107080	OH
NitraLyt®Plus SET/Comp	Robust digital nitrate sensor for ion-selective electrodes (in-situ measuring), for use with the IQ SENSOR NET system, delivered with VARiON® Ref, VARiON®Plus NO3 and VARiON®Plus Cl electrodes. With built-in lightning protection, pre-amplifier and temperature sensor. Not included: SACIQ connection cable (Please order separately).	107082	OH
Nitrate/Nitrite (UV-VIS/UV)			
NitraVis 701 IQ	Spectral nitrate sensor (60 mm) with spectral processing of UV-VIS range, for measurement in inlet/BNR part of municipal wastewater treatment plants, with integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481044	OF
NitraVis 701 IQ TS	Spectral nitrate/TSS sensor (60 mm) with spectral processing of UV-VIS range, for in-situ measurement in inlet/BNR part of municipal wastewater treatment plants, with integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481045	OF
NitraVis 705 IQ	Spectral nitrate sensor (60 mm) with spectral processing of UV-VIS range, for measurement in the effluent of municipal wastewater treatment plants, with integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481046	OF
NitraVis 705 IQ TS	Optical nitrate/TSS sensor (60 mm) with spectral processing of UV-VIS range, for measurement in the effluent of municipal wastewater treatment plants, with integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481047	OF
NiCaVis 705 IQ	Spectral UV-VIS sensor (60 mm) for measurement of Nitrate, CODtotal, CODsoluble, TOC, BOD, DOC, SACTotal, SACsoluble, and UVT254, for measurement in the effluent of municipal wastewater treatment plants, with integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481052	OF
NiCaVis 705 IQ TS	Spectral UV-VIS sensor (60 mm) for measurement of Nitrate, CODtotal, CODsoluble, TOC, BOD, DOC, SACTotal, SACsoluble, UVT254 and TSS, for measurement in the effluent of municipal wastewater treatment plants, with integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481053	OF
NiCaVis 701 IQ NI	Spectral UV sensor (60 mm) for measurement of Nitrite, Nitrate, CODtotal, CODsoluble, TOC, BOD, DOC, SACTotal, SACsoluble, and UVT254 in the influent, biological tank and effluent of municipal waste water treatment plants, with integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481054	OF
NiCaVis 705 IQ NI	Spectral UV sensor (60 mm) for measurement of Nitrite, Nitrate, CODtotal, CODsoluble, TOC, BOD, DOC, SACTotal, SACsoluble, and UVT254 in the effluent of municipal waste water treatment plants, with integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481055	OF
NitraVis 701 IQ NI	Spectral UV sensor (60 mm) for measurement of Nitrite and Nitrate in the influent, biological tank and effluent of municipal waste water treatment plants, with integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481056	OF
NitraVis 705 IQ NI	Spectral UV sensor (60 mm) for measurement of Nitrite and Nitrate in the effluent of municipal wastewater treatment plants, with integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481057	OF
NOx (optical)			
UV 701 IQ NOx	Optical Nitrate (NOx) sensor with single wavelength measurement, for measurement of higher concentrations in wastewater and surface water, with turbidity compensation and integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481034	OF
UV 705 IQ NOx	Optical Nitrate (NOx) sensor with single wavelength measurement, for measurement of lower concentrations in wastewater and surface water, with turbidity compensation and integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481035	OF
Carbon (UV-VIS/UV)			
CarboVis 701 IQ	Optical COD/TOC/DOC/BOD or SAC sensor (60 mm) with spectral processing of the UV-VIS range, for measurement in the inlet/effluent/BNR part of municipal wastewater treatment plants, with integrated integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481048	OF
CarboVis 701 IQ TS	Optical COD/TOC/DOC/BOD/SAC and TSS sensor (60 mm) with spectral processing of the UV-VIS range, for measurement in the inlet/effluent/aeration part of municipal wastewater treatment plants with integrated integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481049	OF

Model	Description	Order No.	
CarboVis 705 IQ	Optical COD/TOC/DOC/BOD or SAC sensor (60 mm) with spectral processing of the UV-VIS range, for measurement in the effluent of municipal wastewater treatment plants, with integrated integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481050	OF
CarboVis 705 IQ TS	Optical COD/TOC/DOC/BOD/SAC and TSS sensor (60 mm) with spectral processing of the UV-VIS range, for measurement in the effluent of municipal wastewater treatment plants, with integrated integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481051	OF
NiCaVis 705 IQ	Spectral UV-VIS sensor (60 mm) for measurement of Nitrate, CODtotal, CODsoluble, TOC, BOD, DOC, SACTotal, SACsoluble, and UVT254, for measurement in the effluent of municipal wastewater treatment plants, with integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481052	OF
NiCaVis 705 IQ TS	Spectral UV-VIS sensor (60 mm) for measurement of Nitrate, CODtotal, CODsoluble, TOC, BOD, DOC, SACTotal, SACsoluble, UVT254 and TSS, for measurement in the effluent of municipal wastewater treatment plants, with integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481053	OF
NiCaVis 701 IQ NI	Spectral UV sensor (60 mm) for measurement of Nitrite, Nitrate, CODtotal, CODsoluble, TOC, BOD, DOC, SACTotal, SACsoluble, and UVT254 in the influent, biological tank and effluent of municipal waste water treatment plants, with integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481054	OF
NiCaVis 705 IQ NI	Spectral UV sensor (60 mm) for measurement of Nitrite, Nitrate, CODtotal, CODsoluble, TOC, BOD, DOC, SACTotal, SACsoluble, and UVT254 in the effluent of municipal waste water treatment plants, with integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481055	OF
SAC/UVT (optical)			
UV 701 IQ SAC	Optical SAC and UVT sensor (254 nm), for measurement of higher concentrations in wastewater and surface water, with turbidity compensation and integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481036	OF
UV 705 IQ SAC	Optical SAC and UVT sensor (254 nm), for measurement of lower concentrations in wastewater and surface water, with turbidity compensation and integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481038	OF
Phosphate (optical/wetchemical)			
Alyza IQ PO4-110	Orthophosphate analyzer Alyza IQ PO4 for the IQ SENSOR NET, Measurement range 1, 1-channel w/o pump. Scope of delivery: Orthophosphate analyzer for indoor and outdoor use, spare parts for the first year, pre-installed 2 m SNCIQ and power cables (please order controller and reagents separately).	825510	OK
Alyza IQ PO4-111	Orthophosphate analyzer Alyza IQ PO4 for the IQ SENSOR NET, Measurement range 1, 1-channel with pump. Scope of delivery: Orthophosphate analyzer for indoor and outdoor use, spare parts for the first year, pre-installed 2 m SNCIQ and power cables (please order controller and reagents separately).	825511	OK
Alyza IQ PO4-112	Orthophosphate analyzer Alyza IQ PO4 for the IQ SENSOR NET, Measurement range 1, 2-channel with 2 pumps. Scope of delivery: Orthophosphate analyzer for indoor and outdoor use, spare parts for the first year, pre-installed 2 m SNCIQ and power cables (please order controller and reagents separately).	825512	OK
Alyza IQ PO4-120	Orthophosphate analyzer Alyza IQ PO4 for the IQ SENSOR NET, Measurement range 2, 1-channel w/o pump. Scope of delivery: Orthophosphate analyzer for indoor and outdoor use, spare parts for the first year, pre-installed 2 m SNCIQ and power cables (please order controller and reagents separately).	825520	OK
Alyza IQ PO4-121	Orthophosphate analyzer Alyza IQ PO4 for the IQ SENSOR NET, Measurement range 2, 1-channel with pump. Scope of delivery: Orthophosphate analyzer for indoor and outdoor use, spare parts for the first year, pre-installed 2 m SNCIQ and power cables (please order controller and reagents separately).	825521	OK
Alyza IQ PO4-122	Orthophosphate analyzer Alyza IQ PO4 for the IQ SENSOR NET, Measurement range 2, 2-channel with 2 pumps. Scope of delivery: Orthophosphate analyzer for indoor and outdoor use, spare parts for the first year, pre-installed 2 m SNCIQ and power cables (please order controller and reagents separately).	825522	OK
Sludge Level			
IFL 700 IQ	Digital ultrasonic sensor (60 mm) with automatic cleaning for interface level detection. Included: Sensor without sensor connection cable (please order SACIQ separately).	481200	OH

Model	Description		Order No.	
Color				
NiCaVis 705 IQ SF Co	New	Spectral UV-VIS probe to measure Nitrate, Color, CODdiss., TOC, BOD, DOC, SAC and UVT254 in surface waters with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings (order SACIQ separately)	481060	OF
CarboVis 705 IQ TS Co	New	Spectral UV-VIS probe for measuring color, CODtot, CODdiss., TOC, BOD, DOC, SACTot., SACdiss., UVT254 and TSS in a WWTP drain/outlet with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings (order SACIQ separately)	481065	OF
NiCaVis 705 IQ TS Co	New	Spectral UV-VIS probe for measuring color, nitrate, CODtot, CODdiss., TOC, BOD, DOC, SACTot., SACdiss. and UVT254 in a WWTP drain/outlet with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings (order SACIQ separately)	481066	OF
ColorVis 705 IQ	New	Spectral UV-VIS probe for measuring color (Hazen 340, 390, 445, 455, 465, ISO 410) with integrated ultrasonic cleaning, multifunctional slide and shock-absorption-rings (order SACIQ separately)	481067	OF
Sensor Connection Cable				
SACIQ-1,5		Sensor adapter cable for all IQ sensors, with IP 68 waterproof connection to the IQ SENSOR NET system. Cable length 1.5 m (4.9 ft)	480040	OH
SACIQ-7,0		Sensor adapter cable for all IQ sensors, with IP 68 waterproof connection to the IQ SENSOR NET system. Cable length 7 m (23 ft)	480042	OH
SACIQ-SO		Sensor adapter cable for all IQ sensors, with IP 68 waterproof connection to the IQ Sensor Net system. Customized cable length up to 100 m (330 ft) ***	480041V	OH
SACIQ-15,0		Sensor adapter cable for all IQ sensors, with IP 68 waterproof connection to the IQ SENSOR NET system. Cable length 15 m (49 ft)	480044	OH
SACIQ-20,0 SW		Sensor adapter cable for all IQ sensors, in seawater design, with IP 68 waterproof connection to the IQ SENSOR NET system. Cable length 20 m (65 ft), with screwable SACIQ-Plug	480045	OH
SACIQ-50,0 SW		Sensor adapter cable for all IQ sensors, in seawater design, with IP 68 waterproof connection to the IQ SENSOR NET system. Cable length 50 m (162 ft), with screwable SACIQ-Plug	480060	OH
SACIQ-SO SW	***	Sensor adapter cable for all IQ sensors, in seawater design, with IP 68 waterproof connection to the IQ SENSOR NET system. Customized cable length up to 100 m (330 ft), with screwable SACIQ-Plug	480064V	OH
SACIQ-Plug		Screwable plug for all SACIQ sensor adapter cables for IQ sensors	480065	OH
SACIQ-25,0 SW		Sensor adapter cable for all IQ sensors, in seawater design, with IP 68 waterproof connection to the IQ SENSOR NET system. Cable length 25 m (82 ft), with screwable SACIQ-Plug	480066	OH

Systems 281, 282/284 and 2020						
	System 281		System 282/284		System 2020	
Max. Number of connectable Sensors	1*		2/4		20	
Max. number of parallel measured parameters	1*		20**		20**	
Output Signals	ANALOG:	DIGITAL:	ANALOG:	DIGITAL:	ANALOG:	DIGITAL:
	2 Analog outputs, 2 Relays	none	Analog outputs (0/4 - 20 mA), Relays	• RS 485	Analog outputs (0/4 - 20 mA), Relays	• RS 485
				• FIELDBUSES: • Profibus DP • Modbus RTU • EtherNet/IP™ • Modbus TCP • PROFINET		• FIELDBUSES: • Profibus DP • Modbus RTU • EtherNet/IP™ • Modbus TCP • PROFINET
	(digital and fieldbus parallel to analog possible)					
Knowledge of Special Automation Technology Required	Basically no		Basically no, in PROFIBUS/Modbus systems yes		Basically no, in PROFIBUS/Modbus systems yes	
Additional Options						
Additional Displays	No		No		Yes	
Redundant Controller	No		No		Yes	
Datalogger	No		Yes		Yes	
Modem-capable Interface (Fixed Line Telephone)	No		No		Yes Alarms and measured values - MIQ/TC 2020 3G: via SMS and web browser - MIQ/MC3 family: via e-mail and web browser	
Radio connection	No		Yes		Yes	

* Only the following IQ sensors can be connected here: SensoLyt® 700 IQ (SW), FDO 700/701 IQ (SW), TriOxmatic® 700 IQ (SW), TetraCon® 700 IQ (SW) and VisoTurb® 700 IQ (SW).

** The sensors VARiON®Plus 700 IQ, NitraVis 701/705 IQ TS, CarboVis 701/705 IQ (TS), NiCaVis 705 IQ, NiCaVis 701/705 IQ NI measure at least 2 parameters.

The IQ SENSOR NET system consists of a variable number of system components with different functions.

The individual components and their primary functions are:		
Controller and terminal	Controller	Controls all communication within the system
	Terminal	Display of measurements, operation and system configuration ("Human Machine Interface")
Modules	Power supply modules	Power supply for system components
	Combined output module	Transmission of measured data or message/alarm functions (mA/relays)
	Branching modules	System branching and sensor connection
Sensors	IQ sensors and connection modules for passive sensors	
Cables	Sensor connection cable	Cables for connecting sensors to modules
	Module connection cable	Cables for connecting modules to remote measuring points
	Module connection cable, ground installation	Cables for connecting modules to remote measuring points, specifically for the ground installation.

Systems in detail

Modules	MIQ/PS	MIQ/24V	MIQ/C6	MIQ/R6	MIQ/CR3	MIQ/IC2	MIQ/3-MOD	MIQ/3-PR	MIQ/JB	MIQ/JBR	MIQ/WL PS (SET) ***	MIQ/TC2020 3G	Terminal IQ	MIQ/MC3	MIQ/MC3-MOD	MIQ/MC3-PR	Cleaning Air Box - 230 VAC	Cleaning Air Box - 115 VAC	MIQ/CHV PLUS
Usable with System 2020	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Usable with System 282/284	●	●	●	●	●	●			●		●						●	●	●
Available IQSN connectors	3	3	2	2	2	2	3	3	4	4	3	×	×	2	2	2	×	×	2
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
Module features																			
Power supply																			
100...240 V AC	●																		
24 V AC/DC		●																	
Analog outputs/relays																			
6 x 0/4...20 mA			●																
6 x relays				●															
3 x 0/4...20 mA 3 x relays					●														
Analog inputs																			
2 x 0/4...20 mA						●													
Interfaces																			
MODBUS							●								●				
PROFIBUS								●									●		
USB						×	×	×				●		●	●	●			
Ethernet/LAN (Profinet, Ethernet/IP, Modbus TCP)														●	●	●			
Intra-system connectivity																			
4 available IQSN connectors									●										
4 available IQSN connectors, including signal amplification for large distances										●									
Radio transmission											●								
Controller																			
Controller/Terminal (with Display)												●							
Terminal (with Display)													●						
Controller in standard IQ module without display														●	●	●			
Compensation																			
Air-pressure compensation for D.O. measurement														●	●	●			
Compressed air cleaning																			
Air compressor 230 VAC																	●		
Air compressor 115 VAC																		●	
Valve for automatic cleaning																			●

* Power supply: MIQ/PS and MIQ/24V provide 18W

** Integrated power supply

*** When used as power supply module: power supply 7 W; otherwise consumption of 0.6 W

× USB-interface only for software update

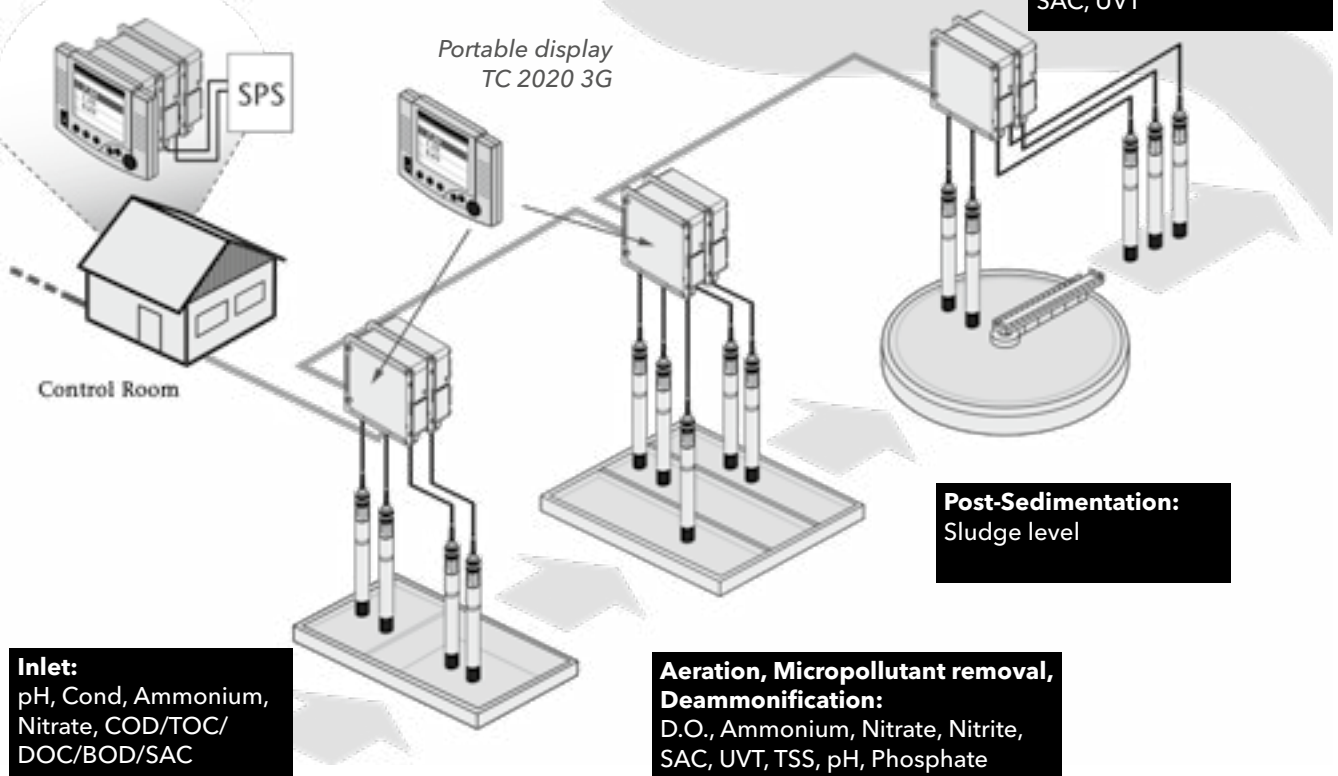
The System 2020

System architecture 2020

The terminal/controller MIQ/TC 2020 3G can be operated as either controller (permanently installed with the system) as also as mobile terminal. This function can be configured with the software by each user. The status LED indicates the selected function and informs about any possible incidents.

Effluent:

Ammonium, Nitrate, Nitrite, Phosphat, pH, Conductivity, Turbidity, COD/TOC/DOC/BOD/SAC, UVT



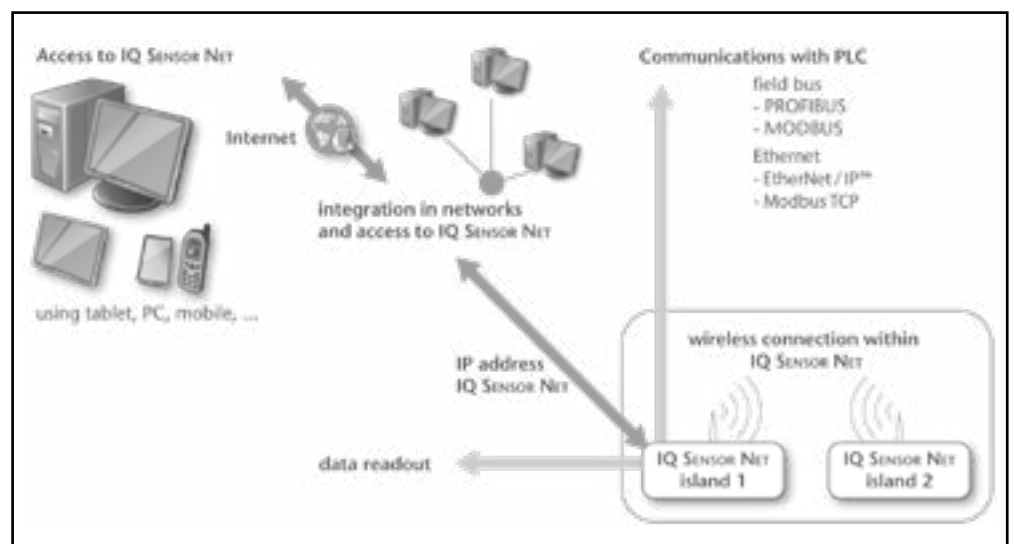
Digital communication with the IQ Net

MIQ/3-PR modul IQ
with PROFIBUS-DP
connection

MIQ/3-MOD modul IQ
with MODBUS RTU/RS
485 connection

MIQ/WL PS
for wireless connection
and linking with the
IQ SENSOR NET System

Additional IQ SENSOR NET
islands possible.



Model		Description	Order No.	
System 2020				
Terminal / Controller				
MIQ/TC 2020 3G		Module IQ Terminal/Controller, configurable as controller (permanently installed) or as terminal with redundant controller function for system 2020, with USB interface, for coupling to any IQ SENSOR NET module	470020	OH
Terminal IQ	New	Terminal for the IQ SENSOR NET System 2020, portable terminal with large, colored display, robust buttons and USB interface, without controller(-BackUp) function	470021	OH
MIQ/TC 2020 3G-CR3		Multi-parameter measuring converter, for connecting up to 20 IQ sensors. Scope of supply: MIQ/TC 2020 3G Terminal/Controller, MIQ/CR3 with 3 analog outputs (0/4-20 mA) and 3 relays, MIQ/PS wide-range power supply	470022	OH
MIQ/TC 2020 3G-C6		Multi-parameter measuring converter, for connecting up to 20 IQ sensors. Scope of supply: MIQ/TC 2020 3G Terminal/Controller, MIQ/C6 with 6 analog outputs (0/4-20 mA), MIQ/PS wide-range power supply	470024	OH
MIQ/TC 2020 3G-EF		Multi parameter Controller to connect up to 20 IQ sensors. Scope of delivery: MIQ/TC 2020 3G Terminal/Controller, MIQ/MC3 Controller with Ethernet interface (Modbus TCP, Ethernet/IP, PROFINET), MIQ/PS wide range power supply	470026	OH
Power Supply				
MIQ/PS		Module IQ/Power Supply, wide-range power supply for system 2020 and 282/284, power output max. 18 W, 3 idle IQ SENSOR NET connections	480004	OH
MIQ/24V		Module IQ/24V, power supply for 24 VAC / 24 VDC input voltage, for system 2020 and 282/284, power output max. 18 W, 3 idle IQ SENSOR NET connections	480006	OH
Outputs, Inputs and Communication				
MIQ/3-MOD		Module IQ with MODBUS connection and automatic air pressure compensation (can be used only with MIQ/TC 2020 3G) (Please order separately D-SUB connection ADA/D-SUB 902888)	471026	OH
MIQ/3-PR		Module IQ with PROFIBUS connection and automatic air pressure compensation (can be used only with MIQ/TC 2020 3G) (Please order separately D-SUB connection ADA/D-SUB 902888)	471027	OH
MIQ/R6		Module IQ/Relais 6, for system 2020 and 282/284, with 6 relays (240 VAC/2 A)	480013	OH
MIQ/CR3		Module IQ/Current Relais 3, for System 2020 and 282/284, with 3 analog (0/4-20 mA) and 3 relay outputs (250 VAC/5 A)	480014	OH
MIQ/C6		Module IQ/Current 6, for system 2020 and 282/284, with 6 (0) 4 - 20 mA outputs	480015	OH
MIQ/IC2		Module IQ/input current with 2 (0) 4 - 20 mA inputs, for system 2020 and 282/284	480016	OH
System Extension				
MIQ/JB		Module IQ/Junction Box for system 2020 and 282/284, 4 idle IQ SENSOR NET connections	480008	OH
MIQ/JBR		Module IQ/Junction Box Repeater for system 2020, with integrated bidirectional signal amplifier (repeater)	480010	OH
MIQ/WL PS		Module IQ Wireless, for cable free communication within the IQ SENSOR NET System 282/284 and System 2020. Extension module for starter set MIQ/WL PS SET (480025).	480023	OH
MIQ/WL PS SET		Modul IQ/Wireless, for cable free communication within the IQ SENSOR NET System 282/284 and System 2020. Starter set consists of 1 Master and 1 Slave. Extension with MIQ/WL PS (480023) possible.	480025	OH
Controller (no Terminal)				
MIQ/MC3		Module IQ/microcontroller for system 2020, for up to 20 IQ sensors, in module housing, with automatic air pressure compensation, USB interface (IP66), Ethernet RJ45 interface (IP 66)	471020	OH
MIQ/MC3-MOD		Module IQ/microcontroller for system 2020, for up to 20 IQ sensors, with MODBUS connection, automatic air pressure compensation as well as USB interface (IP 66) and Ethernet interface (IP 66) (Please order separately D-SUB connection ADA/D-SUB 902888)	471022	OH
MIQ/MC3-PR		Module IQ/microcontroller for system 2020, for up to 20 IQ sensors, with PROFIBUS connection, automatic air pressure compensation as well as USB interface (IP 66) and Ethernet interface (IP 66) (Please order separately D-SUB connection ADA/D-SUB 902888)	471023	OH
Others				
MIQ/CHV PLUS		Module IQ/Cleaning Head Valve, for automatic air cleaning controlled by a relay or the IQ SENSOR NET (relay and compressed air supply external)	480018	OH
EW/1		Set of 4 cable glands M20 required for cable sheaths with an outside diameter of more than 10 mm.	480051	OH
ADA/D-SUB		D-SUB connection for Profibus and Modbus connections for the IQ 2020 and 282/284 systems.	902888	OD

Model	Description	Order No.	
Connection Cables and Mounting Material for Systems 2020 and 282/284			
SD/K 170	Sun shield for outdoor installation of junction boxes (e.g. junction box KI/pH 170) or an IQ SENSOR NET module	109284	OB
MR/SD 170	Mounting kit for attaching sun shields to pipes	109286	OB
SSH/IQ	Sun shield for mounting of IQ SENSOR NET modules and series 171/170 monitors to mounting stands	109295	OH
SNCIQ - SO	New Same like 480046 - Specific two-wire IQ SENSOR NET cable with shield for safe power/information transfer within the IQ SENSOR NET system. Please indicate cable length in m when ordering (unit: m)	480046V	OH
SNCIQ/UG- SO	Same like 480047 - Specific two-wire IQ SENSOR NET cable with shield for safe power/information transfer within the IQ SENSOR NET system, esp. for use in underground Please indicate cable length in m when ordering (unit: m)	480047V	OH
PMS/IQ	Kit for panel mounting of IQ SENSOR NET modules	480048	OH
PMS/IQ-X	PMS/IQ-X - for panel mounting of IQ SENSOR NET System 282/284. Recommended for versions with -PR, -MOD or -E(F).	480049	OH
THS/IQ	Kit for top hat rail mounting of IQ SENSOR NET modules	480050	OH
WMS/IQ	Kit for wall mounting of IQ SENSOR NET modules	480052	OX
SNCIQ-100	Specific two-wire IQ SENSOR NET cable with shield for safe power/information transfer within the IQ SENSOR NET system. Cable reel with 100 m (109 yds)	480068	OH
SNCIQ-200	Specific two-wire IQ SENSOR NET cable with shield for safe power/information transfer within the IQ SENSOR NET system. Cable reel with 200 m (119 yds)	480069	OH
SNCIQ-250	Specific two-wire IQ SENSOR NET cable with shield for safe power/information transfer within the IQ SENSOR NET system. Cable reel with 250 m (273 yds)	480070	OH
SNCIQ-500	Specific two-wire IQ SENSOR NET cable with shield for safe power/information transfer within the IQ SENSOR NET system. Cable reel with 500 m (547 yds).	480072	OH
SNCIQ/UG-250	Specific two-wire IQ SENSOR NET cable with shield for safe power/information transfer within the IQ SENSOR NET system, esp. for use in underground. Cable reel with 250 m (273 yds).	480075	OH

System components and functions			
Terminal/Controller			
	Model	Function	Order No.
Central Control Unit	MIQ/TC 2020 3G (Operation in MODBUS: terminal/controller)*	Central terminal/controller unit: is required to be installed once at any point, remains in the system, cannot be removed. Operation mode is shown through LED.	470 020
	Terminal IQ	As MIQ/TC 2020 3G, but no controller functionality	470021
	MIQ/TC 2020 3G-CR3	Multi-parameter measuring converter, consisting of the components MIQ/TC 2020 3G + MIQ/CR3 + MIQ/PS, 100 - 240 VAC main voltage, 3 analog outputs (0/4-20 mA) and 3 relay outputs, up to 20 free selectable IQ sensors can be connected	470 022
	MIQ/TC 2020 3G-C6	Multi-parameter measuring converter, consisting of the components MIQ/TC 2020 3G + MIQ/C6 + MIQ/PS, 100 - 240 VAC main voltage, 6 analog outputs (0/4-20 mA) up to 20 free selectable IQ sensors can be connected	470 024
	MIQ/TC 2020 3G-EF	Multi-parameter measuring converter, consisting of the components MIQ/TC 2020 3G + MIQ/MC3 + MIQ/PS; 100 - 240AC main voltage; Ethernet interface; Controller-Back-Up-Function; up to free selectable 20 IQ sensors can be connected	470 026
Controller			
	MIQ/MC3	Module IQ/Micro Controller; is required to be installed once at any point; with fully automatic air-pressure compensation and USB + LAN interface	471 020
	MIQ/MC3-MOD	Module IQ/Micro Controller with fully automatic air-pressure compensation and MODBUS RTU / RS 485 connection and USB + LAN interface	471 022
	MIQ/MC3-PR	Module IQ/Micro Controller with fully automatic air-pressure compensation and PROFIBUS-DP / RS 485 connection and USB + LAN interface	471 023
MIQ Modules			
	Model	Function	Order No.
Power Supply	MIQ/PS for 100 - 240 VAC	Depending on the power consumption up to 6 modules can be installed in the system.	480 004
	MIQ/24V for 24 VAC/24 VDC		480 006
Output Modules (analog)	MIQ/CR3 with 3 analog (0/4-20 mA) and 3 relay outputs	With any combination up to max. 48 output channels (sum of current outputs and relays)	480 014
	MIQ/C6 with 6 analog outputs (0/4-20 mA)		480 015
	MIQ/R6 with 6 relay outputs		480 013
Output Modules (digital)	MIQ/3-MOD	Module IQ with fully automatic air-pressure compensation and MODBUS RTU/RS 485 connection	471 026
	MIQ/3-PR	Module IQ with fully automatic air-pressure compensation and PROFIBUS-DP/RS 485 connection	471 027
Magnetic valve module	MIQ/CHV PLUS	Magnetic valve module for automatic controlled cleaning via compressed air	480 018
Linking modules	MIQ/JB	MIQ/JB with 4 connections (for IQ Net or IQ sensors)	480 008
	MIQ/JBR	MIQ/JBR, same as MIQ/JB additionally with amplifier signal for long cable distances (>1 km total length)	480 010
Connecting module Power input	MIQ/IC2	MIQ/IC2 with 2 inputs for 0/4-20 mA signals Enables the connection of separate measuring transmitters and analyzers to the IQ Net	480 016
Radio communication module	MIQ/WL PS	For wireless connection and linking within the IQ SENSOR NET system	480 023 (480 025)

*Via the software adjustable by user.



Detailed technical data can be found in the brochure "**Data sheets process instrumentation**" (999266US); also available on our homepage www.xylemanalytics.com/en under Customer Support/Downloads/Datasheets.

Configuration and Performance Data				
IQ Sensors				
Type	Description		System 2020 Number min/max	Power Consumption/ Output / W
SensoLyt® 700 IQ (SW)	pH/ORP assembly		1 / 20***	⇒ 0.2
TriOxmatic® 700 IQ (SW)	D.O. sensor			⇒ 0.2
TriOxmatic® 701/702 IQ	D.O. sensor			⇒ 0.2
FDO 700/701 IQ (SW)	Optical D.O. sensor			⇒ 0.7
TetraCon® 700 IQ (SW)	Conductivity sensor			⇒ 0.2
VisoTurb® 700 IQ (SW)	Turbidity sensor			⇒ 1.5
ViSolid® 700 IQ (SW)	Suspended solids sensor			⇒ 1.5
VARiON®Plus 700 IQ	Double sensor Ammonium and Nitrate (ISE)			⇒ 0.2
AmmoLyt®Plus 700 IQ	Ammonium assembly (ISE)			⇒ 0.2
NitraLyt®Plus 700 IQ	Nitrate assembly (ISE)			⇒ 0.2
NitraVis 701/705 IQ (TS)	Spectral Nitrate sensor			⇒ 8.0
NitraVis 701/705 IQ NI	Spectral sensor for the measurement of Nitrate and Nitrite			⇒ 8.0
CarboVis 701/705 IQ (TS/Co)	Spectral sensor for the measurement of COD/TOC/DOC/BOD/SAC/UVT ₂₅₄			⇒ 8.0
NiCaVis 705 IQ (TS/SF/Co)	Spectral sensor for the measurement of Nitrate and COD/TOC/DOC/BOD/SAC/UVT ₂₅₄			⇒ 8.0
NiCaVis 701/705 IQ (NI) SF	Spectral sensor for the measurement of Nitrate, Nitrite and COD/TOC/DOC/BOD/SAC/UVT ₂₅₄			⇒ 8.0
UV 701/705 IQ SAC	Optical sensor for the measurement of SAC and UVT ₂₅₄			⇒ 8.0
UV 701/705 IQ NOx	Optical sensor for the measurement of NOx			⇒ 8.0
ColorVis 705 IQ	Optical sensor for the measurement of Color			⇒ 8.0
IFL 700 IQ	Sludge level sensor with integrated scraper			⇒ 5.5
IFL 701 IQ	Sludge level sensor without scraper			⇒ 3.0
P 700 IQ	Orthophosphate analyzer			⇒ 0.5
Alyza IQ PO ₄	Phosphate analyzer			10.0 ⇒
Alyza IQ NH ₄	Ammonium analyzer			10.0 ⇒
Output modules analog				
		with numbers ⊗ of IQ SENSOR NET terminal connections		
			In total there are 48 output channels/ system available	
	Each mA-output, each relais with one module is considered as 1 channel.		Number of occupied output channels	
MIQ/CR3	Module IQ / current relay 3 with 3 analog outputs and 3 relay out- puts each	②	6	⇒ 3.0
MIQ/C6	Module IQ / current 6 with 6 analog outputs	②	6	⇒ 3.0
MIQ/R6	Module IQ/ Relais 6 with 6 relay outputs	②	6	⇒ 1.5
MIQ/CHV PLUS	Module IQ/ Cleaning Head Valve for automatically controlled cleaning	②	1	⇒ 2.5
Output modules digital				
MIQ/3-PR	Module IQ with PROFIBUS-DP connection	②		⇒ 3.0
MIQ/3-MOD	Module IQ with MODBUS RTU / RS 485 connection	②		⇒ 3.0
MIQ/WL PS (SET)	Modules IQ for wireless connection within the IQ SENSOR NET system	③	1 / 10	⇒ 0.6
Power input connection module mA				
MIQ/IC2**	IQ / input current 2, module with 2 inputs for 0 / 4 - 20 mA signals	②	each occupied current input is counted as IQ sensor	⇒ 0.2*
MIQ/JB	IQ / junction box module	④	0/25	⇒ 0.0 (non-active module)
MIQ/JBR	IQ / junction box repeater module	④	0/2	⇒ 0.2
Terminal-Controller				
MIQ/TC 2020 3G	Terminal / controller for system 2020		In total 3 units per system pos- sible, whereby 1 is installed constantly to the station (termi- nal / controller function) and 2 are removable or replacea- ble (terminal function)	⇒ 3.0
and				
Terminal IQ	Terminal for System 2020			
Controller				
MIQ/MC3	Module IQ/Micro Controller	②		⇒ 2.5
MIQ/MC3-PR	Module IQ/Micro Controller with PROFIBUS-DP connection	②		⇒ 3.0
MIQ/MC3-MOD	Module IQ/Micro Controller with MODBUS RTU / RS-485 connection	②		⇒ 3.0
Power supply modules				
MIQ/PS	IQ / power supply module for input power with wide range power supply unit for 100 - 240 VAC input voltage	③	1 / 6	18 ⇒
MIQ/24V	IQ / 24 V module for input power with 24 VAC or 24 VDC input volt- age	③		18 ⇒

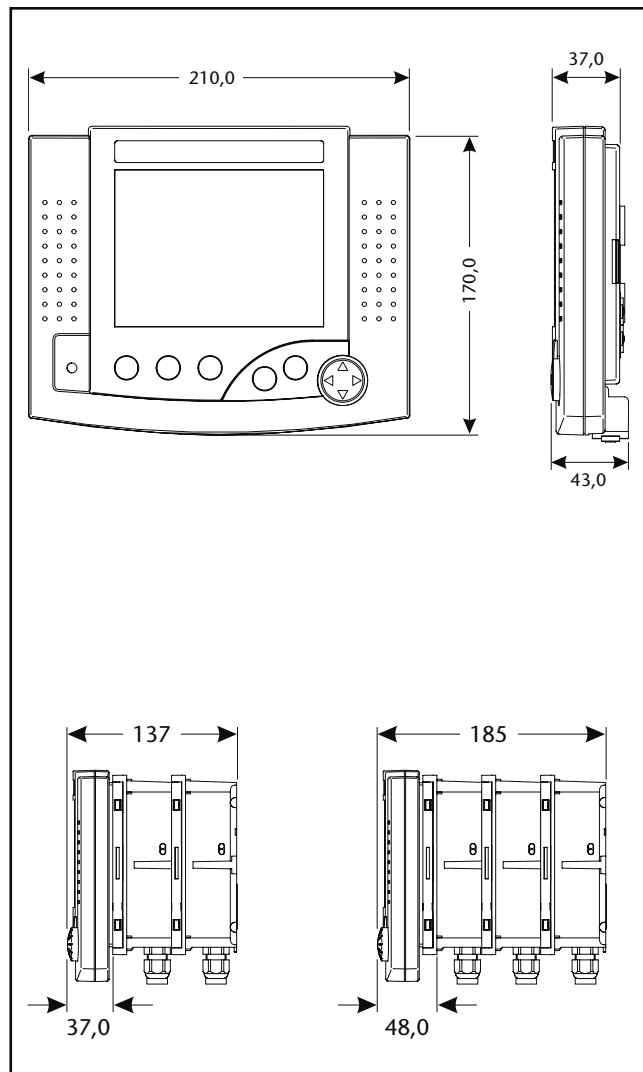
Attention: Please consider power consumption of SNCIQ cable: 1 W per 100 m/109 yds (for cable lengths above 400 m/437 yds)

* further power consumption by external devices is possible.

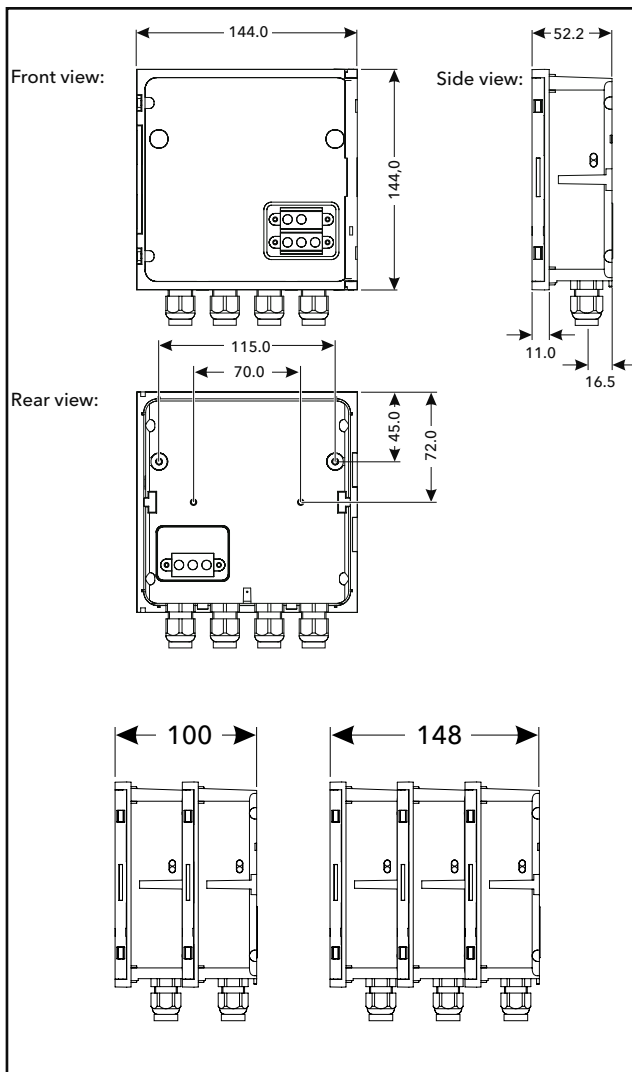
** each occupied current input is counted as IQ sensor

Dimension Terminal/Controller Components for System 2020

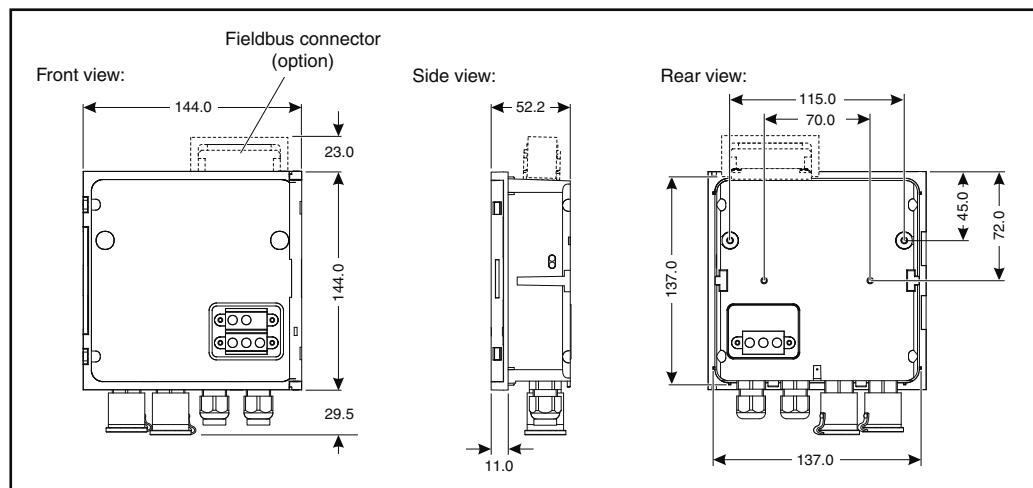
MIQ/TC 2020 3G and Terminal IQ



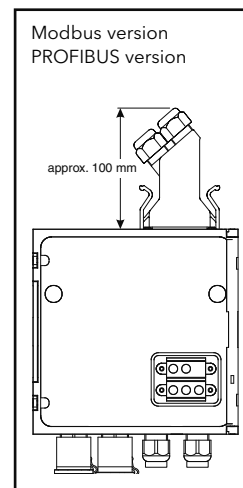
MIQ-Modules



MIQ/MC3

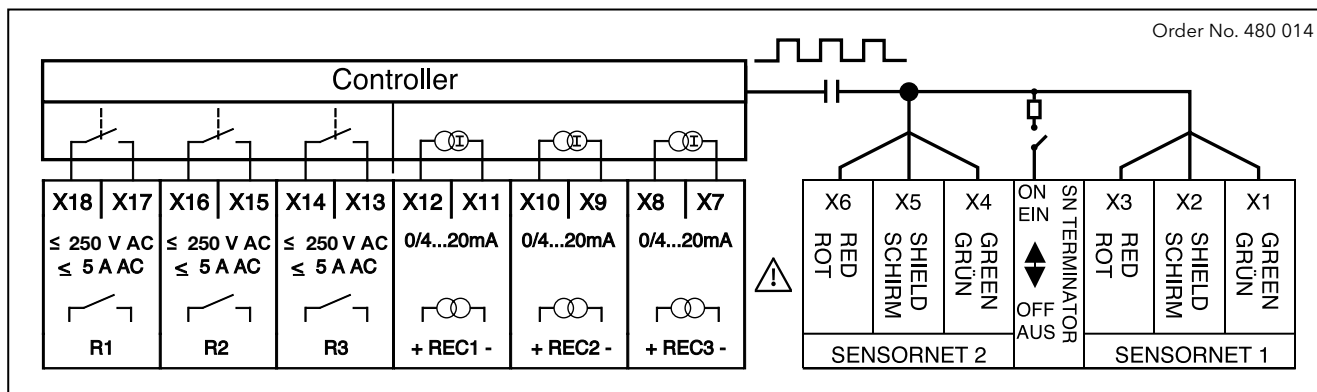


Connection variants

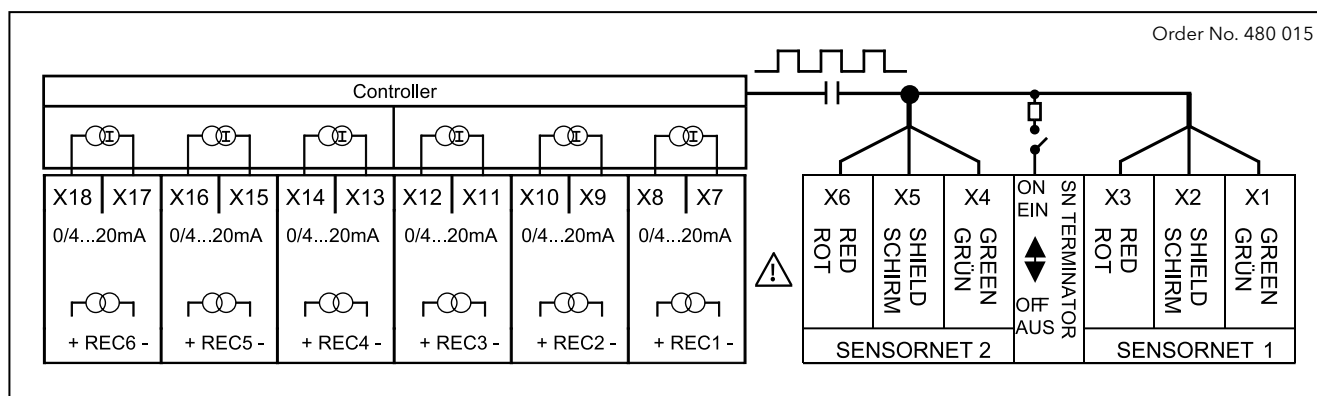


Electrical Connections MIQ/Modules for System 2020

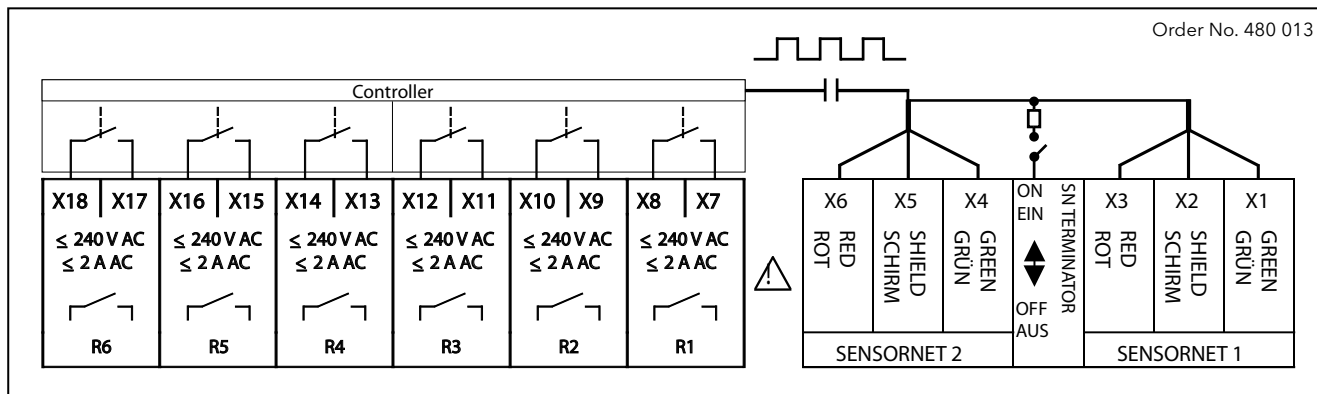
MIQ/CR3



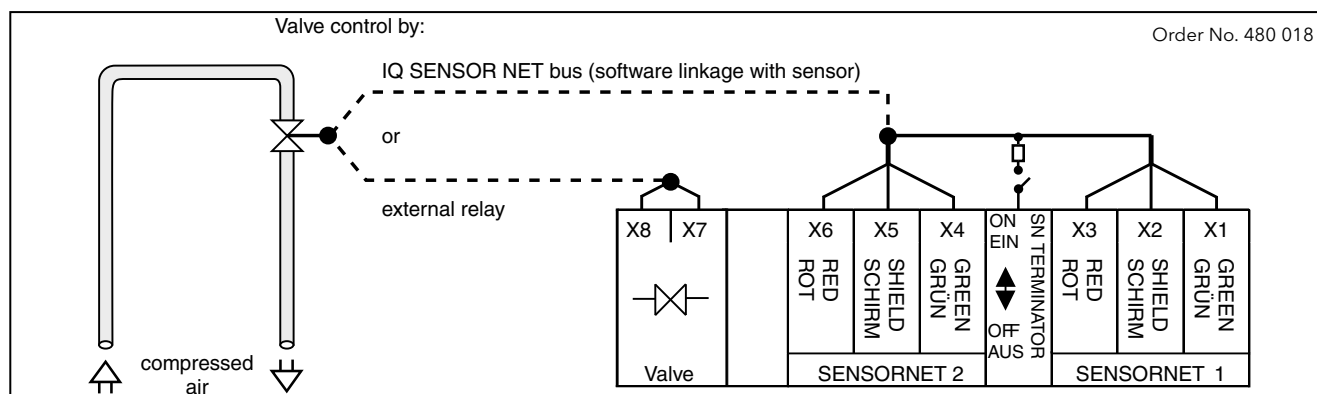
MIQ/C6



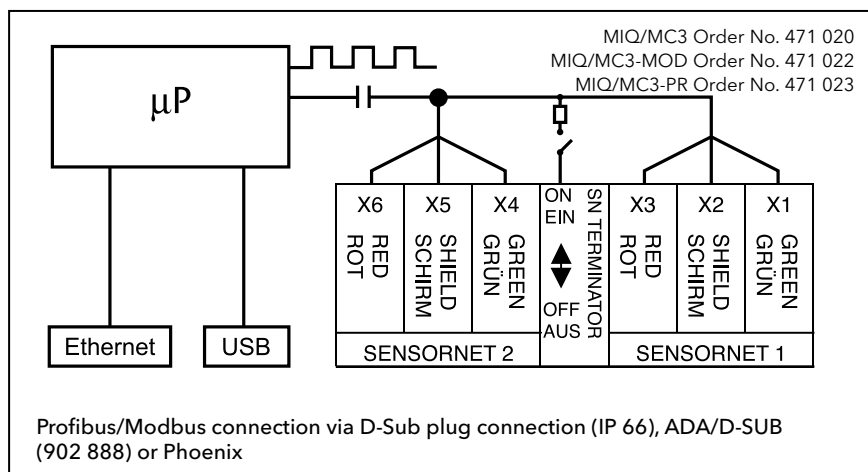
MIQ/R6



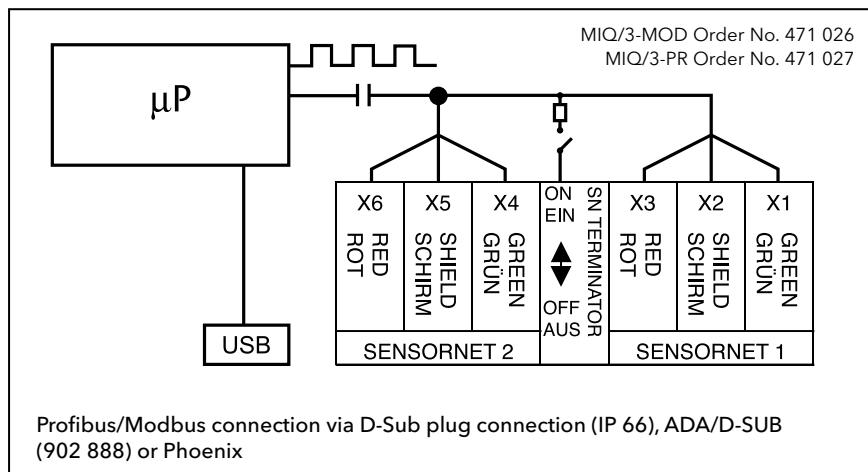
MIQ/CHV PLUS



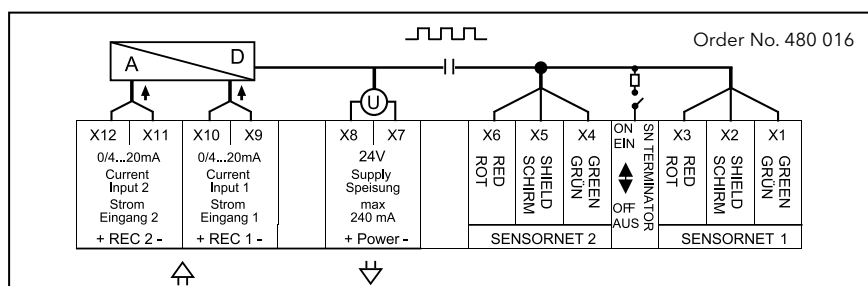
MIQ/MC3, MIQ/MC3-PR and MIQ/MC3-MOD



MIQ/3-PR and MIQ/3-MOD



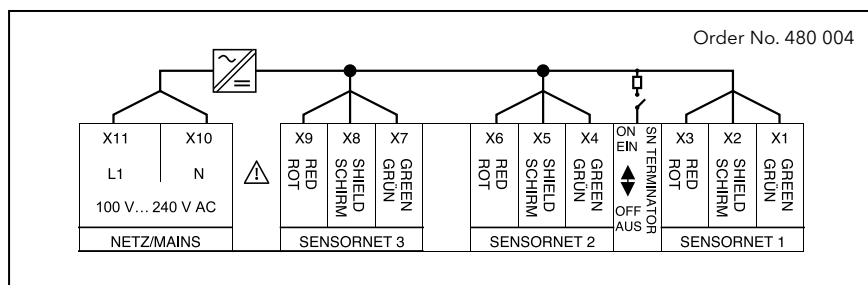
MIQ/IC2



Explanation

Signal amplification is bidirectional between Sections A and B. The weakened signals of Section A are amplified and transmitted to Section B and vice-versa. The power supply of both Sections A and B is electrically connected.

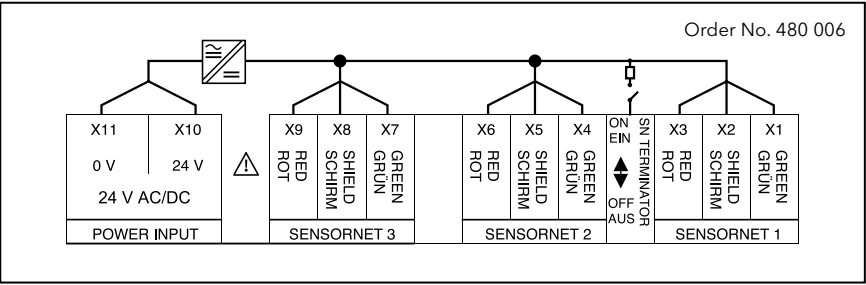
MIQ/PS



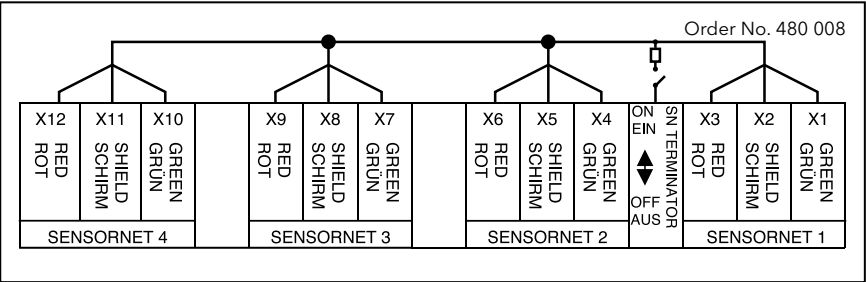
Special characteristics

The MIQ module couplings at the front and back are connected with Section A for stack mounting (important for the ID function).

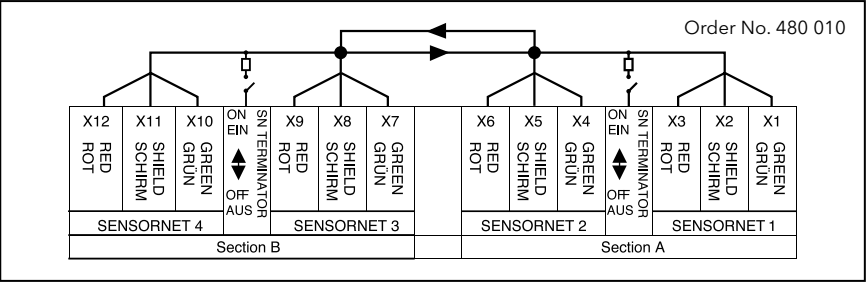
MIQ/24V



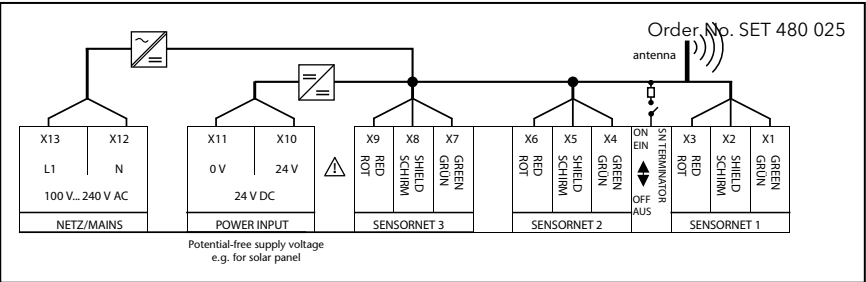
MIQ/JB



MIQ/JBR



MIQ/WL PS SET



The System 282/284

Model	Description	Order No.	
System 282/284			
Monitors for up to 2 digital sensors			
DIQ/S 282-CR3	Universal Transmitter to operate up to 2 digital IQ sensors, with 3 x 0(4) ... 20 mA, 3 x Relays	472110	OH
DIQ/S 282-PR	Universal Transmitter to operate up to 2 digital IQ sensors, with PROFIBUS-connection, 3 x Relays (Please order separately D-SUB connection ADA/D-SUB 902 888)	472111	OH
DIQ/S 282-MOD	Universal Transmitter to operate up to 2 digital IQ sensors, with MODBUS-connection, 3 x Relays (Please order separately D-SUB connection ADA/D-SUB 902 888)	472112	OH
DIQ/S 282-CR3-E	Universal Transmitter to operate up to 2 digital IQ sensors, with 3 x 0(4) ... 20 mA, 3 x Relays, with RJ45 interface for internet connection and remote control	472113	OH
DIQ/S 282-EF	Universal Transmitter to operate up to 2 digital IQ sensors, with Ethernet fieldbuses, internet connection and remote control, 3 x Relays	472114	OH
DIQ/S 282-CR3/24V	Universal Transmitter to operate up to 2 digital IQ sensors, with 3 x 0(4) ... 20 mA, 3 x Relays, for 24 V AC/DC power supply	472120	OH
DIQ/S 282-PR/24V	Universal Transmitter to operate up to 2 digital IQ sensors, with PROFIBUS-connection, 3 x Relays, for 24 V AC/DC power supply (Please order separately D-SUB connection ADA/D-SUB 902 888)	472121	OH
DIQ/S 282-MOD/24V	Universal Transmitter to operate up to 2 digital IQ sensors, with MODBUS-connection, 3 x Relays, for 24 V AC/DC power supply (Please order separately D-SUB connection ADA/D-SUB 902 888)	472122	OH
DIQ/S 282-CR3-E/24V	Universal Transmitter to operate up to 2 digital IQ sensors, with 3 x 0(4) ... 20 mA, 3 x Relays, with RJ45 interface for internet connection and remote control, for 24 V AC/DC power supply	472123	OH
DIQ/S 282-EF/24V	Universal Transmitter to operate up to 2 digital IQ sensors, with Ethernet fieldbuses, internet connection and remote control, 3 x Relays, for 24 V AC/DC power supply	472124	OH
Monitors for up to 4 digital sensors			
DIQ/S 284-CR6	Universal Transmitter to operate up to 4 digital IQ sensors, with 6 x 0(4) ... 20 mA, 6 x Relays	472130	OH
DIQ/S 284-PR	Universal Transmitter to operate up to 4 digital IQ sensors, with PROFIBUS-connection, 3 x Relays (Please order separately D-SUB connection ADA/D-SUB 902 888)	472131	OH
DIQ/S 284-MOD	Universal Transmitter to operate up to 4 digital IQ sensors, with MODBUS-connection, 3 x Relays (Please order separately D-SUB connection ADA/D-SUB 902 888)	472132	OH
DIQ/S 284-CR6-E	Universal Transmitter to operate up to 4 digital IQ sensors, with 6 x 0(4) ... 20 mA, 6 x Relays, with RJ45 interface for internet connection and remote control	472133	OH
DIQ/S 284-EF	Universal Transmitter to operate up to 4 digital IQ sensors, with Ethernet fieldbuses, internet connection and remote control, 3 x Relays	472134	OH
DIQ/S 284-CR6/24V	Universal Transmitter to operate up to 4 digital IQ sensors, with 6 x 0(4) ... 20 mA, 6 x Relays, for 24 V AC/DC power supply	472140	OH
DIQ/S 284-PR/24V	Universal Transmitter to operate up to 4 digital IQ sensors, with PROFIBUS-connection, 3 x Relays, for 24 V AC/DC power supply (Please order separately D-SUB connection ADA/D-SUB 902 888)	472141	OH
DIQ/S 284-MOD/24V	Universal Transmitter to operate up to 4 digital IQ sensors, with MODBUS-connection, 3 x Relays, for 24 V AC/DC power supply (Please order separately D-SUB connection ADA/D-SUB 902 888)	472142	OH
DIQ/S 284-CR6-E/24V	Universal Transmitter to operate up to 4 digital IQ sensors, with 6 x 0(4) ... 20 mA, 6 x Relays, with RJ45 interface for internet connection and remote control, for 24 V AC/DC power supply	472143	OH
DIQ/S 284-EF/24V	Universal Transmitter to operate up to 4 digital IQ sensors, with Ethernet fieldbuses, internet connection and remote control, 3 x Relays, for 24 V AC/DC power supply	472144	OH
DIQ Module			
DIQ/JB	Dual IQ/Junction box for connection of a second or an IQ sensor in bigger distance to the system 282/284	472005	OH
DIQ/CHV	Dual IQ/Cleaning Head Valve for automatic air cleaning controlled by a relay, for system 281/282/284, (relay and compressed air supply external)	472007	OH
MIQ Modules, Cables for System Supplement, Accessories			
MIQ/PS	Module IQ/Power Supply, wide-range power supply for system 2020 and 282/284, power output max. 18 W, 3 idle IQ SENSOR NET connections	480004	OH
MIQ/24V	Module IQ/24V, power supply for 24 VAC / 24 VDC input voltage, for system 2020 and 282/284, power output max. 18 W, 3 idle IQ SENSOR NET connections	480006	OH
MIQ/JB	Module IQ/Junction Box for system 2020 and 282/284, 4 idle IQ SENSOR NET connections	480008	OH
MIQ/R6	Module IQ/Relais 6, for system 2020 and 282/284, with 6 relays (240 VAC/2 A)	480013	OH

Model		Description	Order No.	
MIQ/CR3		Module IQ/Current Relais 3, for System 2020 and 282/284, with 3 analog (0/4-20 mA) and 3 relay outputs (250 VAC/5 A)	480014	OH
MIQ/C6		Module IQ/Current 6, for system 2020 and 282/284, with 6 (0) 4 - 20 mA outputs	480015	OH
MIQ/IC2		Module IQ/input current with 2 (0) 4 - 20 mA inputs, for system 2020 and 282/284	480016	OH
MIQ/CHV PLUS		Module IQ/Cleaning Head Valve, for automatic air cleaning controlled by a relay or the IQ SENSOR NET (relay and compressed air supply external)	480018	OH
MIQ/WL PS		Module IQ/Wireless, for cable free communication within the IQ SENSOR NET System 282/284 and System 2020. Extension module for starter set MIQ/WL PS SET (480025).	480023	OH
MIQ/WL PS SET		Modul IQ/Wireless, for cable free communication within the IQ SENSOR NET System 282/284 and System 2020. Starter set consists of 1 Master and 1 Slave. Extension with MIQ/WL PS (480023) possible.	480025	OH
SNCIQ - SO	New	Same like 480046 - Specific two-wire IQ SENSOR NET cable with shield for safe power/information transfer within the IQ SENSOR NET system. Please indicate cable length in m when ordering (unit: m)	480046V	OH
SNCIQ/UG- SO		Same like 480047 - Specific two-wire IQ SENSOR NET cable with shield for safe power/information transfer within the IQ SENSOR NET system, esp. for use in underground Please indicate cable length in m when ordering (unit: m)	480047V	OH
SNCIQ-100		Specific two-wire IQ SENSOR NET cable with shield for safe power/information transfer within the IQ SENSOR NET system. Cable reel with 100 m (109 yds)	480068	OH
SNCIQ-200		Specific two-wire IQ SENSOR NET cable with shield for safe power/information transfer within the IQ SENSOR NET system. Cable reel with 200 m (119 yds)	480069	OH
SNCIQ-250		Specific two-wire IQ SENSOR NET cable with shield for safe power/information transfer within the IQ SENSOR NET system. Cable reel with 250 m (273 yds)	480070	OH
SNCIQ/UG-250		Specific two-wire IQ SENSOR NET cable with shield for safe power/information transfer within the IQ SENSOR NET system, esp. for use in underground. Cable reel with 250 m (273 yds).	480075	OH
ADA/D-SUB		D-SUB connection for Profibus and Modbus connections for the IQ 2020 and 282/284 systems.	902888	OD
ADA/E		Connector for the Ethernet interface (RJ45) on controllers of System 282/284. Ensures protection IP67 when Ethernet cable is connected outdoor.	902890	OD

Module	DIQ/S 282	DIQ/S 284
Max. number of sensors	2	4
IQ SENSOR NET connections	DIQ/S 282-CR3(-E) (/24V) 1; all others 2	DIQ/S 284-CR6(-E) (/24V) 3; all others 2
Version with analog outputs	3 x (0) 4 ... 20 mA 3 x Relays (optional: Ethernet interface for remote control)	6 x (0) 4 ... 20 mA 6 x Relays (optional: Ethernet interface for remote control)
Ethernet Version	Connection for Ethernet fieldbus 3 x Relays	Connection for Ethernet fieldbus 3 x Relays
PROFIBUS Version	Connection for PROFIBUS 3 x Relays	Connection for PROFIBUS 3 x Relays
MODBUS Version	Connection for MODBUS 3 x Relays	Connection for MODBUS 3 x Relays

Configuration and Performance Data				
Type	Description	Systems 282/284 Number Min/Max		Power consumption [W]
IQ Sensors				
SensoLyt® 700 IQ (SW)	pH/ORP assembly	DIQ/S 282 1/2	⇒ 0.2	
TriOxmatic® 700 IQ (SW)	D.O. sensor		⇒ 0.2	
TriOxmatic® 701/702 IQ	D.O. sensor	DIQ/S 284 1/4	⇒ 0.2	
FDO 700/701 IQ (SW)	Optical D.O. sensor		⇒ 0.7	
TetraCon® 700 IQ (SW)	Conductivity sensor		⇒ 0.2	
VisoTurb® 700 IQ (SW)	Turbidity sensor		⇒ 1.5	
ViSolid® 700 IQ (SW)	Suspended solids sensor		⇒ 1.5	
VARiON®Plus 700 IQ	Double sensor Ammonium and Nitrate (ISE)		⇒ 0.2	
AmmoLyt®Plus 700 IQ	Ammonium assembly (ISE)		⇒ 0.2	
NitraLyt®Plus 700 IQ	Nitrate assembly (ISE)		⇒ 0.2	
NitraVis 701/705 IQ (TS)	Spectral Nitrate sensor		⇒ 8.0	
NitraVis 701/705 IQ NI	Spectral sensor for the measurement of Nitrate and Nitrite		⇒ 8.0	
CarboVis 701/705 IQ (TS/Co)	Spectral sensor for the measurement of COD/TOC/DOC/BOD/SAC/UVT ₂₅₄		⇒ 8.0	
NiCaVis 705 IQ (TS/SF/Co)	Spectral sensor for the measurement of Nitrate and COD/TOC/DOC/BOD/SAC/UVT ₂₅₄		⇒ 8.0	
NiCaVis 701/705 IQ (NI) SF	Spectral sensor for the measurement of Nitrate, Nitrite and COD/TOC/DOC/BOD/SAC/UVT ₂₅₄		⇒ 8.0	
UV 701/705 IQ SAC	Optical sensor for the measurement of SAC and UVT ₂₅₄		⇒ 8.0	
UV 701/705 IQ NOx	Optical sensor for the measurement of NOx	⇒ 8.0		
ColorVis 705 IQ	Optical sensor for the measurement of Color	⇒ 8.0		
IFL 700 IQ	Sludge level sensor with integrated scraper	⇒ 5.5		
IFL 701 IQ	Sludge level sensor without scraper	⇒ 3.0		
P 700 IQ	Orthophosphate analyzer	⇒ 0.5		
Alyza IQ PO ₄	Phosphate analyzer	10 ⇒		
Alyza IQ NH ₄	Ammonium analyzer	10 ⇒		
Output modules analog				
with ⊗ number of IQ SENSOR NET terminal connections				
MIQ/CHV PLUS	Module IQ / Cleaning Head Valve for automatically controlled cleaning	②	1/2 and 1/4 respectively	⇒ 2.5
MIQ/CR3	Module IQ / Current Relays 3, with 3 analog outputs and 3 relay outputs	②	1/2	⇒ 3.0
DIQ/CR3	Module IQ / Current Relais 3, with 3 analog outputs and 3 relay outputs	②	1/2	⇒ 3.0***
MIQ/C6	Module IQ / Current 6 with 6 analog outputs	②	1/2	⇒ 3.0
MIQ/R6	Module IQ / Relays 6 with 6 relay outputs	②	1/2	⇒ 1.5
Output modules digital				
MIQ/WL PS SET	Module IQ for wireless connection within the IQ SENSOR NET System	③	1/4	⇒ 0.6
Power input connection module mA				
MIQ/IC2**	Module IQ / Input Current 2 with 2 inputs for 0(4) ... 20 mA signals	②	0/2	⇒ 0.2 *
MIQ/JB	Module IQ / Junction Box	④	0/4	⇒ 0.0 (passive module)
Power supply modules				
MIQ/PS	IQ / power supply module for input power with wide range power supply unit for 100 - 240 VAC input voltage	③	0/1	18 ⇒
MIQ/24V	IQ / 24 V module for input power with 24 VAC or 24 VDC input voltage	③		18 ⇒

* further power consumption by external devices is possible.

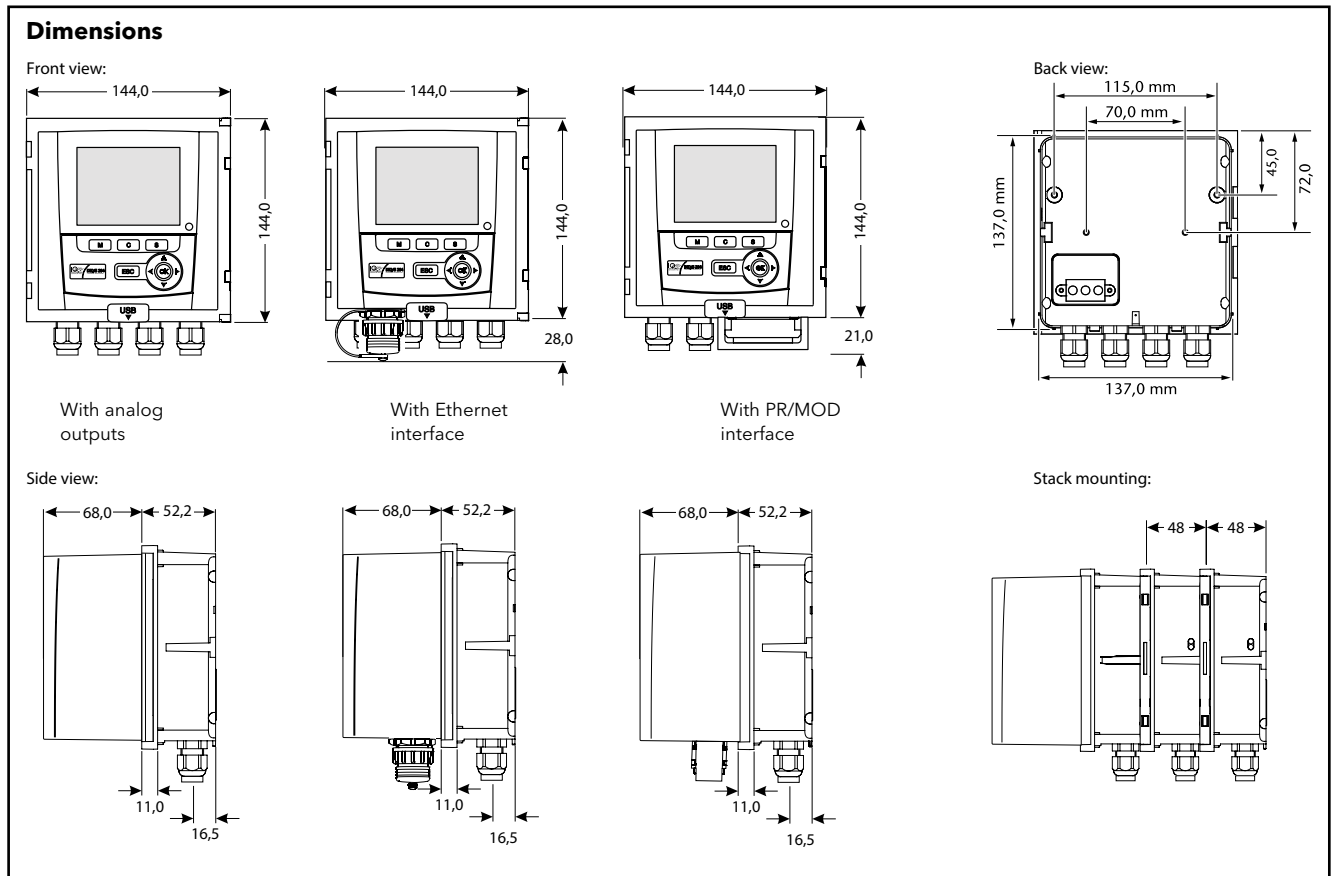
** each occupied current input is counted as IQ sensor

*** When operating with System 282/284, the average power consumption can be used.

Details see operating manual System 282/284.

Monitors System 282/284

DIQ/S 282/284

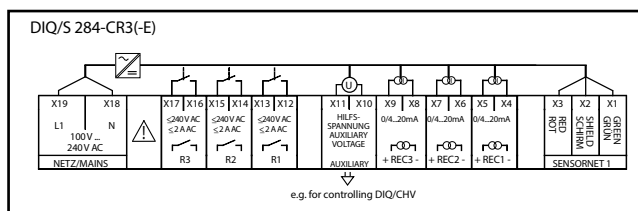


Electrical Connections Monitors System 282/284

DIQ/S 282-CR3 DIQ/S 282-CR3-E

Order No. 472 110

Order No. 472 113



DIQ/S 282-PR DIQ/S 282-MOD DIQ/S 282-EF DIQ/S 284-PR DIQ/S 284-MOD DIQ/S 284-EF

Order No. 472 111

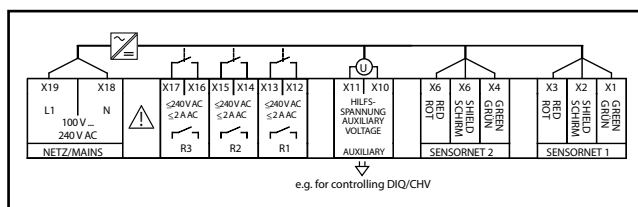
Order No. 472 112

Order No. 472 114

Order No. 472 131

Order No. 472 132

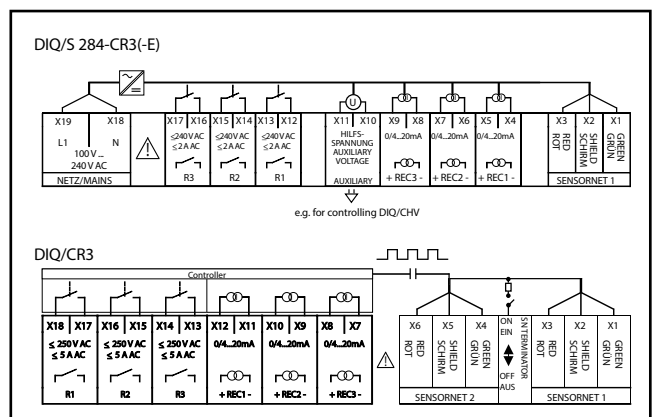
Order No. 472 134



DIQ/S 284-CR6 DIQ/S 284-CR6-E

Order No. 472 130

Order No. 472 133

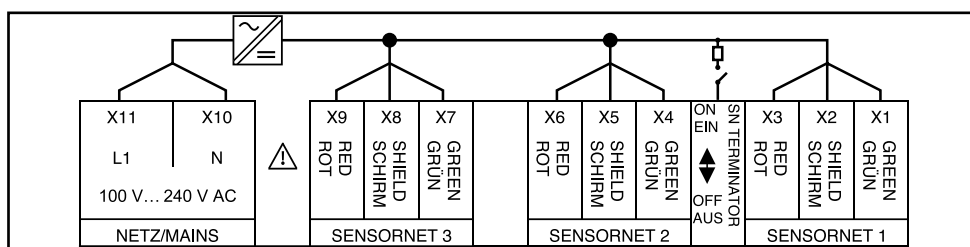


24V versions are identical, except connections X18 and X19

Electrical Connections MIQ/Modules for System Supplement

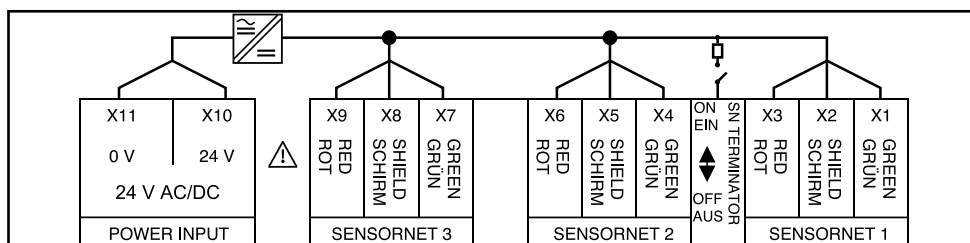
MIQ/PS

Order No. 480 004



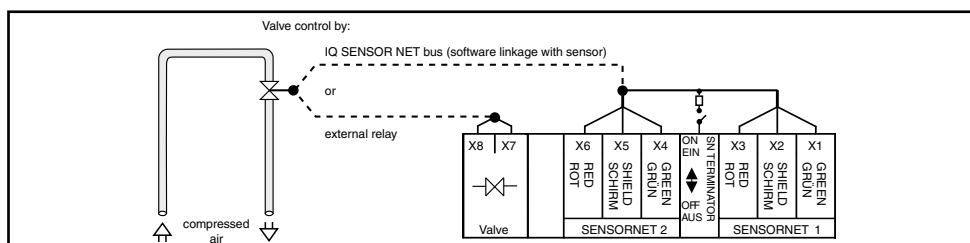
MIQ/24V

Order No. 480 006



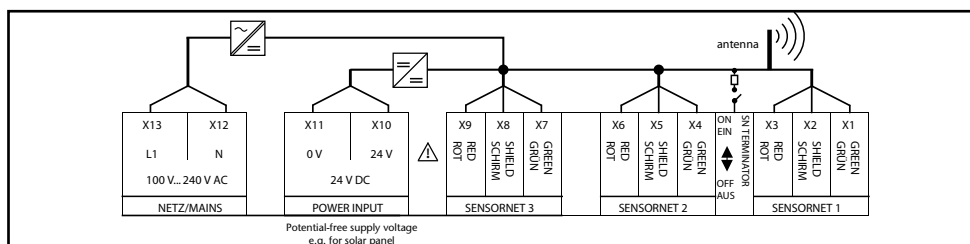
MIQ/CHV PLUS

Order No. 480 018



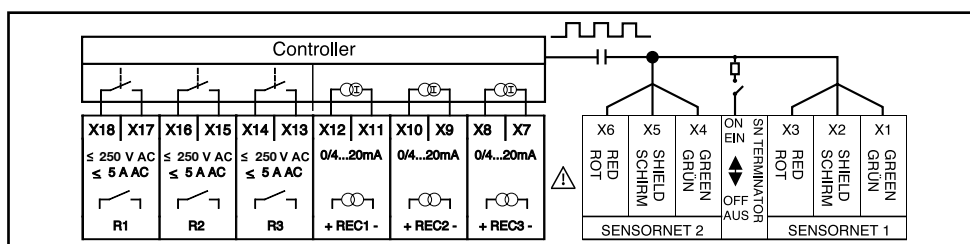
MIQ/WL PSSET

Order No. 480 025



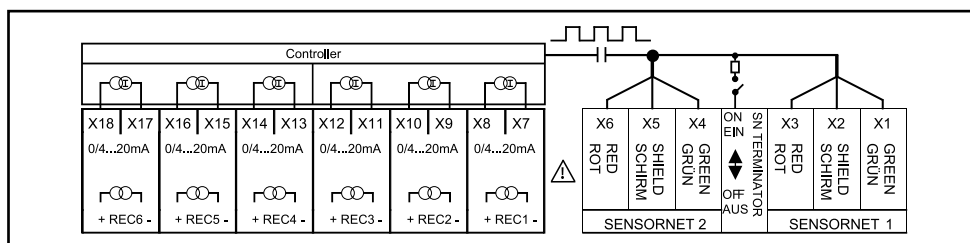
MIQ/CR3

Order No. 480 014



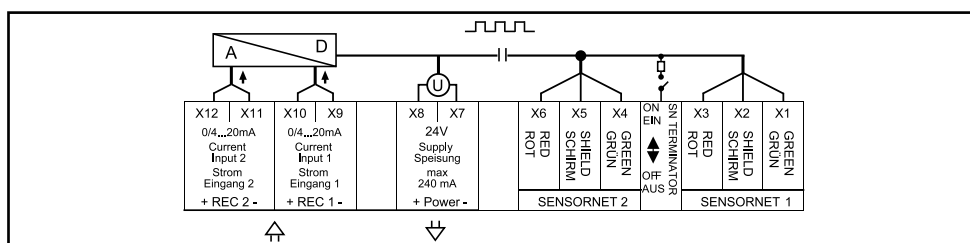
MIQ/C6

Order No. 480 015



MIQ/IC2

Order No. 480 016



The System 281

Model	Description	Order No.	
System 281			
Monitors for 1 digital IQ sensor			
DIQ/S 281-CR2	Universal Transmitter to operate up 1 digital IQ sensor, with 2 x 0(4) ... 20 mA, 2 x Relays	472103	OH
DIQ/S 281-CR2/24V	Universal Transmitter to operate 1 digital IQ sensor, with 2 x 0(4) ... 20 mA, 2 x Relays, for 24 V AC/DC power supply	472104	OH
Digital IQ sensors			
SensoLyt® 700 IQ	Robust digital pH/ORP sensor for pH/ORP electrodes SensoLyt® SEA/DWA/ECA/PtA for use with the IQ SENSOR NET. With built-in pre-amplifier and temperature sensor (NTC), with SensCheck function, without connection cable (please order SACIQ separately)	109170	OH
SensoLyt® 700 IQ SW	Robust digital pH/ORP sensor for SensoLyt® SEA/ DWA/ECA/PtA pH/ORP electrodes, in sea water design, for use with the IQ SENSOR NET. With built-in pre-amplifier and temperature sensor (NTC), with SensCheck function, without connection cable (please order SACIQ separately)	109171	OH
TriOxmatic® 700 IQ	Universal digital D.O. sensor for monitoring/controlling O2 input in wastewater treatment plants for use with IQ SENSOR NET. Supplied with accessory kit (ZBK 600) comprising: 2 exchange membrane heads (WP 600/2), 50 ml electrolyte solution (ELY/A), 50 ml cleaning solution (RL-AG/Oxi), 1x cathode cleaner (SF 300), without connection cable (SACIQ order separately)	201640	OH
TriOxmatic® 700 IQ SW	Universal digital D.O. sensor for monitoring/ controlling the O2 input, in sea water design, for use with IQ SENSOR NET. Supplied with accessory kit (ZBK 600) comprising: 2 exchange membrane heads (WP 600/2), 50 ml electrolyte solution (ELY/A), 50 ml cleaning solution (RL-AG/Oxi), 1 x cathode cleaner (SF 300), without connection cable (SACIQ order separately)	201641	OH
FDO 700 IQ	Digital calibration free optical D.O. sensor (universal use). Optimized for monitoring/controlling the O2 input in wastewater treatment plants, for use with IQ SENSOR NET. Factory calibrated system composed of sensor FDO® 700 IQ and membrane cap SC-FDO® 700, without connection cable (SACIQ order separately)	201650	OH
FDO® 700 IQ SW	Digital calibration free optical D.O. sensor (universal use). Optimized for measuring and controlling the O2 input in seawater applications, for use with IQ SENSOR NET. Factory calibrated system composed of sensor FDO® 700 IQ SW, membrane cap SC-FDO® 700 and protective cap MSK FDO®, without connection cable (SACIQ order separately).	201652	OH
FDO 701 IQ SW	Digital calibration free optical D.O. sensor with fast response time (universal use). Optimized for measuring/controlling the O2 input in seawater applications, for use with IQ SENSOR NET. Factory calibrated system composed of sensor FDO® 700 IQ SW, membrane cap SC-FDO® 701 and protective cap MSK FDO®, without connection cable (SACIQ order separately)	201653	OH
FDO 701 IQ	Digital calibration free optical D.O. sensor with fast response time (universal use). Optimized for monitoring/controlling the O2 input in waste water treatment plants, for use with IQ SENSOR NET. Factory calibrated system composed of sensor FDO® 700 IQ and membrane cap SC-FDO® 701, without connection cable (SACIQ order separately).	201660	OH
TetraCon® 700 IQ	Digital 4 electrode conductivity cell, especially for heavily polluted wastewater, for use with the IQ SENSOR NET System. With integrated temperature sensor, without cable (Please order SACIQ separately)	302500	OH
TetraCon® 700 IQ SW	Digital 4 electrode conductivity cell, in seawater design, suited for heavily polluted water, for use with the IQ SENSOR NET. With integrated temperature sensor, without cable (Please order SACIQ separately)	302501	OH
VisoTurb® 700 IQ	Digital turbidity sensor for drinking water/water and wastewater (ultrasonic cleaning) for use with the IQ SENSOR NET system. Please order connection cable SACIQ separately.	600010	OH
VisoTurb® 700 IQ SW	Digital turbidity sensor for industrial and seawater applications (ultrasonic cleaning) for use with the IQ SENSOR NET system. Please order connection cable separately.	600011	OH

Model	Description	Order No.	
Accessories for System 281			
DIQ/CHV	Dual IQ/Cleaning Head Valve for automatic air cleaning controlled by a relay, for system 281/282/284, (relay and compressed air supply external)	472007	OH
SACIQ-1,5	Sensor adapter cable for all IQ sensors, with IP 68 waterproof connection to the IQ SENSOR NET system. Cable length 1.5 m (4.9 ft)	480040	OH
SACIQ-7,0	Sensor adapter cable for all IQ sensors, with IP 68 waterproof connection to the IQ SENSOR NET system. Cable length 7 m (23 ft)	480042	OH
SACIQ-SO	Sensor adapter cable for all IQ sensors, with IP 68 waterproof connection to the IQ Sensor Net system. Customized cable length up to 100 m (330 ft) ***	480041V	OH
SACIQ-15,0	Sensor adapter cable for all IQ sensors, with IP 68 waterproof connection to the IQ SENSOR NET system. Cable length 15 m (49 ft)	480044	OH
SACIQ-20,0 SW	Sensor adapter cable for all IQ sensors, in seawater design, with IP 68 waterproof connection to the IQ SENSOR NET system. Cable length 20 m (65 ft), with screwable SACIQ-Plug	480045	OH
SNCIQ - SO	New Same like 480046 - Specific two-wire IQ SENSOR NET cable with shield for safe power/information transfer within the IQ SENSOR NET system. Please indicate cable length in m when ordering (unit: m)	480046V	OH
SNCIQ/UG- SO	Same like 480047 - Specific two-wire IQ SENSOR NET cable with shield for safe power/information transfer within the IQ SENSOR NET system, esp. for use in underground Please indicate cable length in m when ordering (unit: m)	480047V	OH



Detailed technical data can be found in the brochure "**Data sheets process instrumentation**" (999266US); also available on our homepage www.xylenanalytics.com/en under Customer Support/Downloads/Datasheets.



Mounting accessories for controllers and sensors of the System 181 can be found in section Accessories.

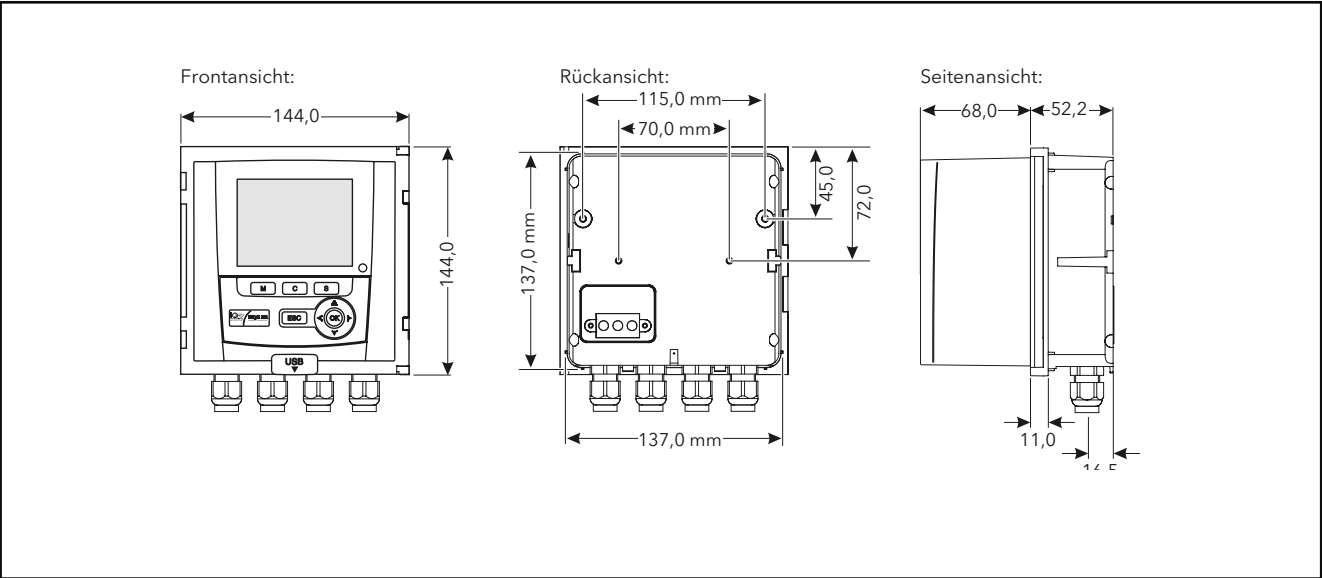
Configuration and Performance Data

Configuration and Performance Data			
Type	Description	Quantity in System 181	Storage temperature Operating temperature
IQ sensors with fixed cable			
SensoLyt® 700 IQ F	pH/ORP assembly	1	+23 °F ... +149 °F (-5 °C ... +65 °C) +32 °F ... +140 °F (0°C ... +60 °C)
TriOxmatic® 700 IQ F	D.O. sensor		+23 °F ... +149 °F (-5 °C ... +65 °C) +32 °F ... +140 °F (0°C ... +60 °C)
FDO® 70X IQ F	Optical D.O. sensor		+13 °F ... +149 °F (-25°C...+122°C) +23 °F ... +140 °F (-5°C ... +122°C)
TetraCon® 700 IQ F	Conductivity sensor		+23 °F ... +149 °F (-5 °C ... +65 °C) +23 °F ... +140 °F (-5 °C ... +60 °C)
VisoTurb® 700 IQ F	Turbidity sensor		+23 °F ... +149 °F (-5 °C ... +65 °C) +32 °F ... +140 °F (0°C ... +60 °C)
Connectable DIQ modules			
DIQ/CHV	Dual IQ/Cleaning Head Valve, for automatic air cleaning	1	➡ 2.2
DIQ/JB	Dual IQ/Junction Box for cable extension	1	➡ 3.0

Dimensional Drawings of 281 Controller

**DIQ/S 281-CR2,
DIQ/S 281-CR2/24V**

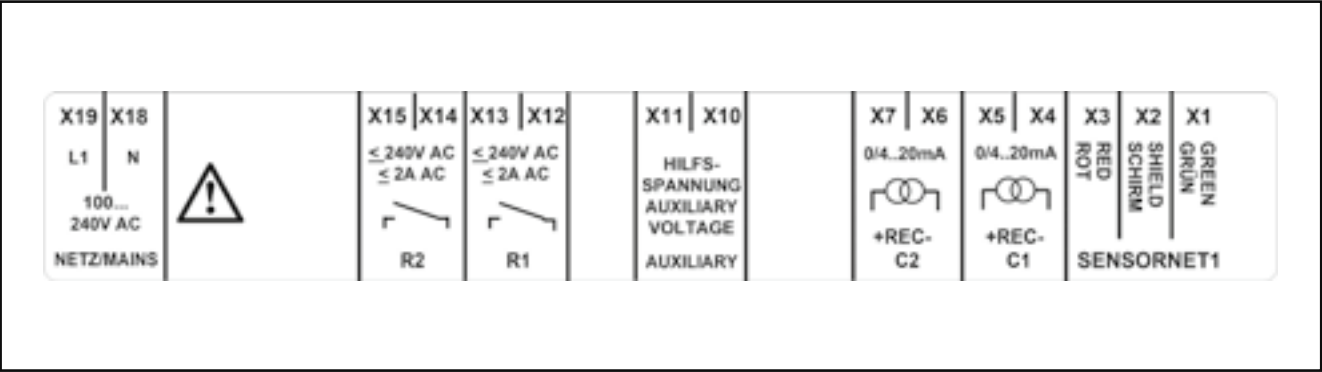
Order number: 472 103
Order number: 472 104



Electrical Connections of 281 Controller

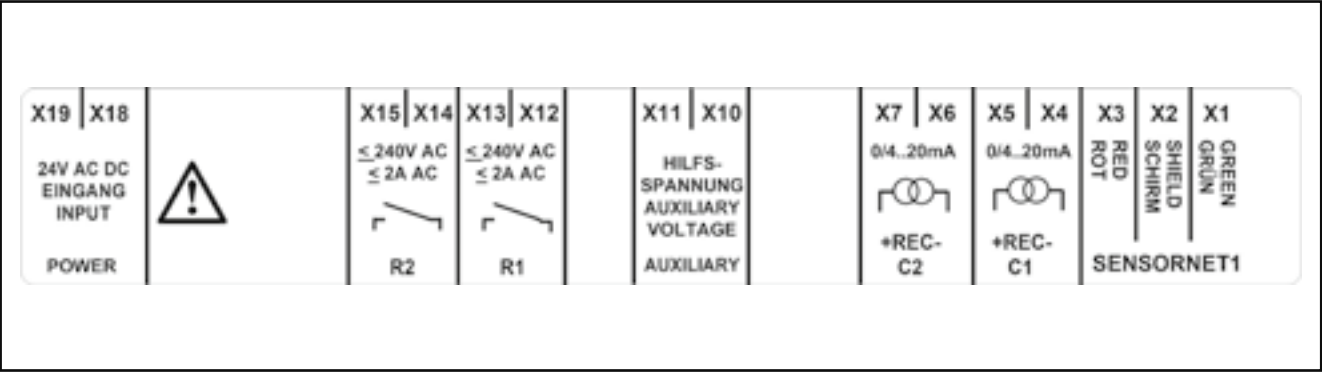
DIQ/S 281-CR2

Order number: 472 103



DIQ/S 281-CR2/24V

Order number: 472 104



Analog measurement (pH/ORP, D.O., Cond, Cl)

Analog Controllers

Model	Description	Order No.	
pH/ORP Monitors			
pH 298 NTC	Monitor for direct connection of analog pH/ORP electrodes, with 2 analog and relay outputs, Modbus, 115V/230V and NTC	191230	OH
pH 298 Pt100	Monitor for direct connection of analog pH/ORP electrodes, with 2 analog and relay outputs, Modbus, 115V/230V and Pt100	191232	OH
pH 298 Pt1000	Monitor for direct connection of analog pH/ORP electrodes, with 2 analog and relay outputs, Modbus, 115V/230V and Pt1000	191234	OH
Dissolved Oxygen Monitors			
Oxi 298 NTC	Monitor for direct connection of analog oxygen sensors, with 2 analog and relay outputs, Modbus, 115V/230V and NTC	291230	OH
Conductivity Monitors			
LF 298 NTC	Monitor for direct connection of analog conductivity measuring cells, with 2 analog and relay outputs, Modbus, 115V/230V and NTC	391230	OH
Chlorine Monitors			
CI 298 Pt1000	Monitor for direct connection of analog chlorine sensors, with 2 analog and relay outputs, Modbus, 115V/230V and Pt1000	801254	OH
Accessories analog controllers			
AK-USB 298	Cable for analog controllers of series 298 to export logged data via USB.	108154	OA

24V versions are available on request.

Analog pH/ORP Sensors

Model	Description	Order No.	
Analog pH/ORP sensors			
SensoLyt® 650-7	pH sensor (passive) with high impedance signal transmission, for connection to analog monitors. With built-in temperature sensor (NTC), with cable of 7 m (23 ft) and open cable ends	109195	OC
Accessories analog pH/ORP sensors			
SensoLyt® TFA	pH combination electrode especially suited for industrial or not typical municipal wastewater, with armoring for use in SensoLyt® sensors. With watertight S7 plug head (IP 67); measuring range 2 ... 12 pH	109114	OI
SensoLyt® SEA	pH combination electrode especially suited for measurements in heavily polluted wastewater, with armoring for use in SensoLyt® sensors. With watertight S7 plug head (IP 67); measuring range 0 ... 12 pH	109115	OI
SensoLyt® ECA	pH combination electrode esp. suited for normally polluted wastewater (e.g. municipal wastewater) with armoring for use in SensoLyt® sensors. With watertight S7 plug head (IP 67); measuring range 0 ... 12 pH	109117	OI
SensoLyt® SEA-HP	pH combination electrode with optimized armoring for use under high pressure/temperature conditions, for installation in SensoLyt® sensors. With watertight S7 plug head (IP 67); measuring range 4 ... 12 pH	109118	OE
SensoLyt® DWA	pH combination electrode especially for drinking water applications, for installation in sensors of SensoLyt® 650/690/700 (IQ) series. With watertight S7 plug head (IP 67); measuring range 0 ... 14 pH	109119	OI
SensoLyt® PtA	ORP combination electrode especially suited for measurements in heavily polluted wastewater, for installation in SensoLyt® sensors. With watertight S7 plug head (IP 67); measuring range - 2000 ... + 2000 mV	109125	OE
SensoLyt® PtFA	New ORP combination electrode especially suited for industrial or not typical municipal wastewater, for installation in SensoLyt® sensors. With watertight S7 plug head (IP 67); measuring range - 2000 ... + 2000 mV	109126	OE
SensoLyt® 700-SK	Protecting cage (protection against strikes/ solids) for SensoLyt® pH/ORP electrodes within SensoLyt® sensors	109194	OF

Model	Description	Order No.	
Analog pH/ORP electrodes			
SensoLyt® Pt	ORP combination electrode for heavily polluted wastewater, for use in flow-thru vessels: D 700/N, D 530, D 300/pH etc. With watertight S7 plug head (IP67); measuring range: -2000 ... + 2000 mV	105412	OE
SensoLyt® SE	pH combination electrode esp. suited for measurements in heavily polluted wastewater, for use in flow-thru vessel: D 700/N, D 530, D 300/pH etc. With watertight S7 plug head (IP 67); measuring range 0 ... 12 pH	109100	OE
SensoLyt® EC	pH combination electrode especially suited for normally polluted wastewater (e.g. municipal wastewater). With watertight S7 plug head (IP 67); measuring range 0 ... 12 pH	109102	OE
SensoLyt® DW	pH combination electrode especially for drinking water applications. With watertight S7 plug head (IP 67); measuring range 0 ... 14 pH	109103	OE
Accessories analog pH/ORP electrodes			
TFK 150	Temperature sensor for automatic temperature compensation with 3.3 ft (1 m) cable and waterproof plug	102274	LC
TFK 325	Temperature sensor for automatic temperature compensation in aqueous solutions with 3.3 ft (1 m) cable and waterproof plug	102280	LC
TFK 325-3	Temperature sensor for automatic temperature compensation in aqueous solutions including 3 m / 9.7 ft cable and waterproof plug (IP 67)	102282	OE
TFK 325-EST-3,0	Temperature sensor (NTC), with R ½ inch-NPT- screw thread and weld-in socket (1.4571) for in-line mounting including 3 m cable and waterproof plug (IP 67)	102287	OE
VP 6-19/10	VP 6-pole electrode socket, 10 m cable KA 19 (1 coaxial + 3 cords), up to 266 °F (130 °C), free end	108455	OF
K 5 S	Coaxial electrode plug, 5 m coaxial cable, S plug (extension cable)	108461	OF
AS 9-HI-6,0	Connecting cable with exposed cable ends for direct connection (high impedance) of pH electrodes to analog monitors. Cable length 6 m (19 ft)	108507	OF
TEP 4	Technical buffer solution, 1 bottle with 1 l: pH 4.01	108700	LI1
TEP 7	Technical buffer solution, 1 bottle with 1 l: pH 7.00	108702	LI1
TEP 10 Trace	Technical buffer solution, 1 bottle with 1 l: pH 10.01	108703	LI1
RH 28	ORP buffer solution pH 7, UH = 427 mV (CH), 1 bottle with 250 ml.	109740	LC



To connect analog sensors to transmitters of the IQ SENSOR NET, see junction boxes in section "Accessories"



Detailed technical data can be found in the brochure „**Data sheets process instrumentation**“ (999266US); also available on our homepage www.xylenanalytics.com/en under Customer Support/Downloads/Datasheets.

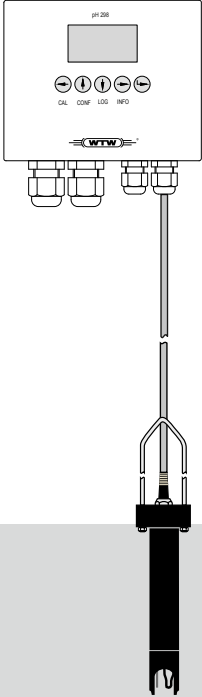
System Configurations Analog Systems

pH/ORP Monitors Series 298

Configuration Guide Analog pH/ORP Measurement		
		pH 298
		Field Monitor
Sensolyt® 650 Sensor Assembly w/o preamplifier, high-impedance output, integrated temp. measurement, 32 ... 140 °F (0 ... 60 °C)	Compatible electrodes: SEA: 2 ... 12 pH SEA-HP: 4 ... 12 pH DWA: 0 ... 14 pH ECA: 2 ... 12 pH PtA: ±1000 mV 32 ... 140 °F (0 ... 60 °C)	• Low-cost configuration • High impedance signal transmission • pH measurement in highly polluted wastewater (municipal/industrial) Type SEA • pH measurement in normally polluted wastewater (municipal/industrial) Type ECA • pH measurement in drinking water (DWA) • ORP measurement in highly polluted wastewater (municipal/industrial) Type PtA • Inline installation (SEA or SEA-HP)
CHEMtrac 830 M pH/ORP retractable housing with flushing chamber for maintenance and calibration, stainless steel 1.4404/316L, operating conditions: 16 bar (at max. 120 °C) / 140 °C (at max. 10 bar)	Compatible electrodes: PL 80-225pH 0 ... 14 pH, 32 ... 266 °F (0 ... 130 °C) PL 81-225pHT VP 0 ... 14 pH, 32 ... 266 °F (0 ... 130 °C) PL 82-225pHT VP 0 ... 14 pH, 32 ... 266 °F (0 ... 130 °C) PL 89-225pt ±2000 mV, 32 ... 266 °F (0 ... 130 °C)	• High-impedance signal transmission • In-line pH measurement in process lines or pressure vessels • Increased pressure and temperature requirements 16 bar (bei max. 120 °C) / 140 °C (at max. 10 bar) • Built-in temperature measurement with PL 81-225pHT VP or PL 82-225pHT VP

High-impedance signal transmission

(max. cable length 7 m/23 ft)

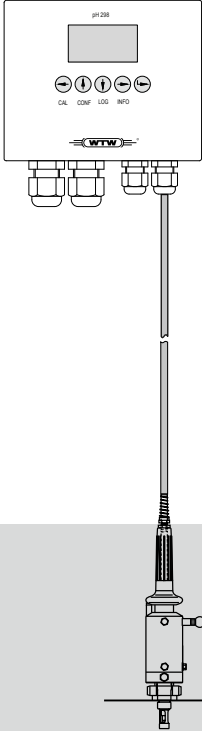


pH 298
Configuration Example: pH 298 NTC
Order No: 191 230

Sensors without preamplifier:	Sensolyt® 650-7	109 195
Electrodes:	Sensolyt® SEA	109 115
optional:	Sensolyt® DWA	109 119
	Sensolyt® ECA	109 117
	Sensolyt® PtA	109 125

High-impedance signal transmission

(max. cable length 10 m/33 ft)



pH 298
Configuration Example: pH 298 Pt1000
Order No: 191 234

Connection cable:	VP 6-19/10	108 455
Valve Assembly:	CHEMtrac 830 M	109 237
Electrode with temperature sensor:	PL 81-225pHT VP	109 236

Analogue measurement (pH/ORP, O₂, Cond, Cl)

Analog D.O. Sensors

Model	Description	Order No.	
Analog Oxygen sensors			
TriOxmatic® 701-7	D.O. sensor with SensCheck, enhanced accuracy at low level D.O. concentrations (e.g. denitrification), for use with analog monitor. Supplied with accessory kit (ZBK 25i) comprising: 2 exch. Membr. Heads (WP 25i/2), 50 ml electrolyte solution (ELY/A), 50 ml cleaning solution, 1x cathode cleaner (SF300), with integr. Temperature sensor (NTC), 7 m/23 ft cable and watertight plug	201678	0A
TriOxmatic® 701-15	D.O. sensor with SensCheck, enhanced accuracy at low level D.O. concentrations (e.g. denitrification), for use with analog monitor. Supplied with accessory kit (ZBK 25i) comprising: 2 exch. Membr. Heads (WP 25i/2), 50 ml electrolyte solution (ELY/A), 50 ml cleaning solution, 1x cathode cleaner (SF300), with integr. Temperature sensor (NTC), 15 m/49 ft cable and watertight plug	201680	0A
TriOxmatic® 701-SO	*	201682V	0A
TriOxmatic® 690-7	Universal D.O. sensor for monitoring/controlling O ₂ input in wastewater treatment plants, for use with analog monitor. Supplied with accessory kit (ZBK 600) comprising: 2 exch. Membr. Heads (WP 600/2), 50 ml electrolyte solution (ELY/A), 50 ml cleaning solution, 1x cathode cleaner (SF 300), with integrated temp. Sensor (NTC), 7 m/23 ft cable and watertight plug	201690	0G
TriOxmatic® 690-15	Universal D.O. sensor for monitoring/controlling O ₂ input in wastewater treatment plants, for use with analog monitor. Supplied with accessory kit (ZBK 600) comprising: 2 exch. Membr. Heads (WP 600/2), 50 ml electrolyte solution (ELY/A), 50 ml cleaning solution, 1x cathode cleaner (SF 300), with integrated temp. Sensor (NTC), 15 m/49 ft cable and watertight plug	201692	0G
TriOxmatic® 690-SO*	*	201693V	0G
Accessories analog Oxygen sensors			
ADA/AMPH	Adapter for direct connection of D.O./pH sensors of series TriOxmatic® and Sensolyt® 700/690 to analog monitors of Oxi/pH 29X series	108592	0X



To connect analog sensors to transmitters of the IQ SENSOR NET, see junction boxes in section Accessories



Detailed technical data can be found in the brochure "**Data sheets process instrumentation**" (999266US); also available on our homepage www.xylemanalytics.com/en under Customer Support/Downloads/Datasheets.

System Configurations Analog Systems

D.O. Monitors Series 298

Configuration Guide		
	1. Measuring range 2. Response time t_{90} 3. SensCheck Function	Oxi 298 Field monitor
TriOxmatic® 690 D.O. sensor for water/wastewater	1.: 0.0 ... 60,0 mg/l 0 ... 600% 2.: < 180 s 3.: -	• Low-cost system without sensor diagnostic • Water/wastewater • Oxygenation
TriOxmatic® 701 D.O. sensor for water/wastewater	1.: 0.00 ... 20.00 mg/l 0.0 ... 60.0 mg/l 0.0 ... 200.0% 0 ... 600% 2.: < 30 s 3.: SensLeak SensReg	• Water/wastewater • Oxygenation • Residual D.O.

Oxi 298

Configuration Example

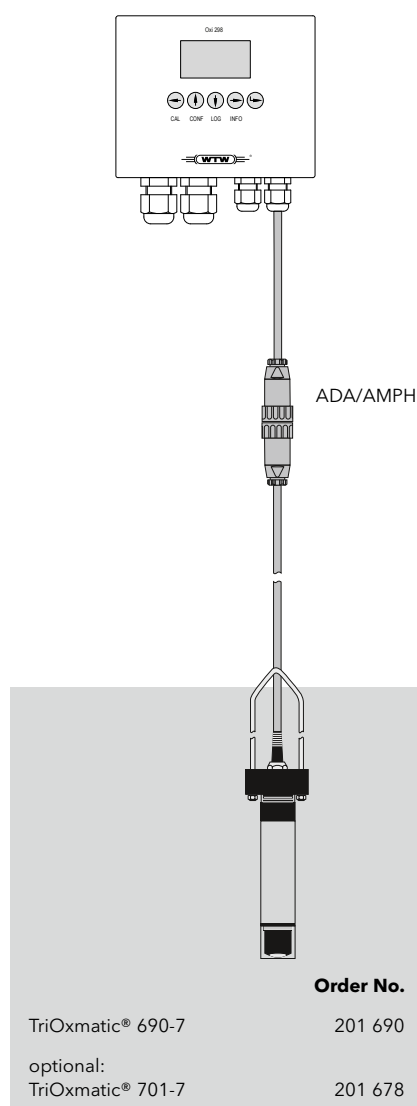
Oxi 298 NTC

Order No.

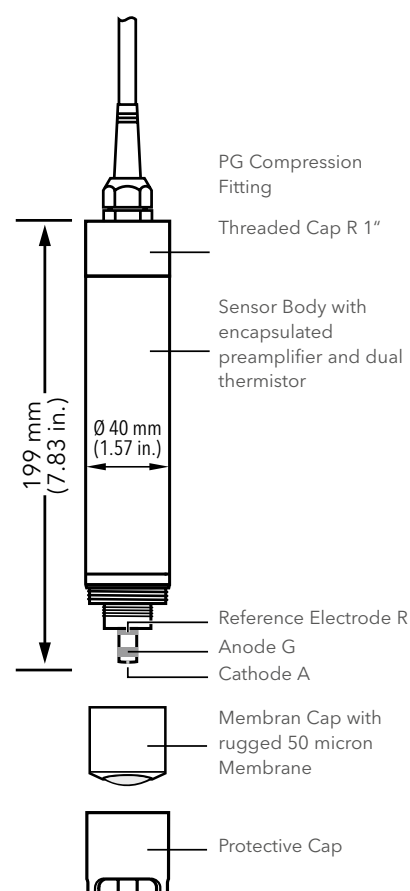
291 230

ADA/AMPH

108 592



TriOxmatic®



Analog Conductivity Measuring Cells

Model	Description	Order No.	
Analog Conductivity measuring cells			
TetraCon® DU/T	4-electrode flow-through conductivity cell with built-in temperature sensor, for all standard applications, cell constant: $K = 0.778 \text{ cm}^{-1}$	301252	LC
TetraCon® 325	4-electrode conductivity cell with built-in temperature sensor, 1.5 m (4.9 ft) cable and waterproof plug, cell constant $K = 0.475 \text{ cm}^{-1}$	301960	LB
LR 325/01	Ultrapure water conductivity cell with built-in temperature sensor and waterproof plug, cell constant $K = 0.1 \text{ cm}^{-1}$, glass flow-through vessel D01/T.	301961	LB
LR 325/001	Trace conductivity cell with built-in temperature sensor, cable and waterproof plug, cell constant $K = 0.01 \text{ cm}^{-1}$, stainless steel flow-through vessel.	301962	LC
KKDU 325	Connection cable, 3.3 ft (1 m), 8-pin plug, for flow-through conductivity cells TetraCon® DU/T, TetraCon® DU/TH, KDU 1/T and KDU?1/TH	301963	LB
TetraCon® 325-3	4-electrode conductivity cell with built-in temperature sensor, 3 m (9.8 ft) cable and waterproof plug, cell constant $K = 0.475 \text{ cm}^{-1}$.	301970	LB
TetraCon® 325-6	4-electrode conductivity cell with built-in temperature sensor, 6 m (19.8 ft) cable and waterproof plug, cell constant $K = 0.475 \text{ cm}^{-1}$.	301971	LB
TetraCon® 325-10	4-electrode conductivity cell with built-in temperature sensor, 10 m (33 ft) cable and waterproof plug, cell constant $K = 0.475 \text{ cm}^{-1}$.	301972	LB
TetraCon® 325-15	4-electrode conductivity cell with built-in temperature sensor, 15 m (49 ft) cable and waterproof plug, cell constant $K = 0.475 \text{ cm}^{-1}$.	301973	LB
TetraCon® 325-20	4-electrode conductivity cell with built-in temperature sensor, 20 m (65 ft) cable and waterproof plug, cell constant $K = 0.475 \text{ cm}^{-1}$.	301974	LB
LRD 01-1,5	2 electrode screw-in conductivity cell, 1/2 inch NPT, for use with analog monitors. With integrated temperature sensor, 1.5 m (4.9 ft) cable and watertight plug (IP68)	302220	OA
LRD 01-7	2 electrode screw-in conductivity cell, 1/2 inch NPT, for use with analog monitors. With integrated temperature sensor, 7 m (23 ft) cable and watertight plug (IP68)	302222	OA
LRD 325-1,5	4 electrode screw-in conductivity cell, 1/2 inch NPT, for use with analog monitors. With integrated temperature sensor, 1.5 m (4.9 ft) cable and watertight plug (IP68)	302225	OH
LRD 325-7	4 electrode screw-in conductivity cell, 1/2 inch NPT, for use with analog monitors. With integrated temperature sensor, 7 m (23 ft) cable and watertight plug (IP68)	302229	OH
Accessories analog Conductivity measuring cells			
ADA-G 1"	V4A-stainless steel (1.4571) muffle 1/2 inch NPT to G1 inch thread	303202	OE
ADA-LF-DN 20	PVC glue-in socket with 1/2 inch thread for installation of LRD 01/LRD 325 in DN 20 pipes	303203	OE
EST-LRD	V4A-stainless steel (1.4571) weld-in socket 1/2 inch NPT for installation of LRD 01 or LRD 325 conductivity sensor in pipes.	303209	OE
ADA/AMPH-LF	Adapter for direct mounting of conductivity cells series TetraCon® 700 and LRD to analog monitors of series LF 29X	303215	OF
ADA/LAB-LF	Adapter for mounting of laboratory conductivity cells to analog monitors of series LF 29X	303216	OF



To connect analog sensors to transmitters of the IQ SENSOR NET, see junction boxes in section Accessories



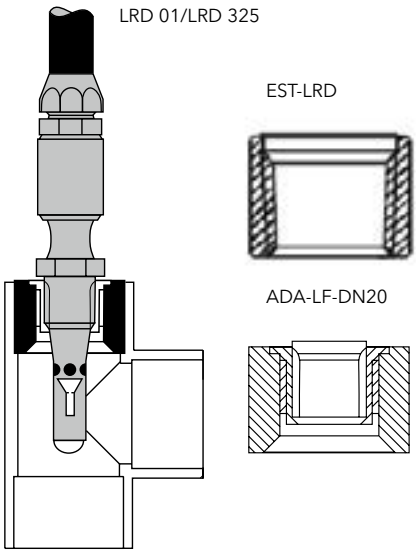
Detailed technical data can be found in the brochure "**Data sheets process instrumentation**" (999266US); also available on our homepage www.xylenanalytics.com/en under Customer Support/Downloads/Datasheets.

Analog Conductivity measurement

Configuration Guide Analog Conductivity Measurement		
	1. Measuring range 2. Cell constant 3. Probe type 4. Temperature compensation 5. Temperature range 6. Pressure range 7. Protection rating	LF 298 Field Monitor
LRD 01	1.: 0,01 ... 200 µS/cm 2.: K=0.1 cm ⁻¹ 3.: 2-electrode cell 4.: NTC 5.: 32 ... 266 °F (0 ... 130 °C) 6.: 14 bar (68 °F/20 °C) 7.: IP 68 (electrode)	Boiler Feed Water/Ion Exchanger; In-Line Measurements/ Pipework Mounting 1/2" NPT Thread Usable Measuring Range: 0.00 ... 19.99 µS/cm 0.0 ... 199.9 µS/cm 32 ... 266 °F (0 ... 130 °C); 14 bar (68 °F/20 °C)
LRD 325	1.: 1 µS/cm ... 2 S/cm 2.: K=0.475 cm ⁻¹ 3.: 4-electrode cell 4.: NTC 5.: 32 ... 212 °F (0 ... 100 °C) 6.: 10 bar 7.: IP 68 (electrode)	Large Usable Measuring Range; In-Line Measurements/ Pipework Mounting 1/2" (3/4" Adapter) NPT Thread 0.0 ... 199.0 µS/cm 0 ... 1999 µS/cm 0.00 ... 19.99 mS/cm 0.0 ... 199.9 mS/cm (MR: 0.0 ... 199.9 mS/cm to 110.0 mS/cm at 122 °F/50 °C) 32 ... 212 °F (0 ... 100 °C); 10 bar at 68 °F (20 °C)
LR 325/01	1.: 0.001 ... 300 µS/cm 2.: K=0.1 cm ⁻¹ 3.: 2-electrode cell 4.: NTC 5.: 32 ... 212 °F (0 ... 100 °C) 6.: 2 bar 7.: IP 68 (electrode)	Boiler Feed Water/Ion Exchanger; Conductivity Cell with Flow-thru Chamber; Usable Measuring Range: 0,00 ... 19.99 µS/cm 0,0 ... 199.9 µS/cm 0.000 ... 0.200 mS/cm 32 ... 122 °F (0 ... 50 °C)
LR 325/001	1.: 0.0001 ... 30 µS/cm 2.: K=0.01 cm ⁻¹ 3.: 2-electrode cell 4.: NTC 5.: 32 ... 212 °F (0 ... 100 °C) 6.: 2 bar 7.: IP 68 (electrode)	Boiler Feed Water/Ion Exchanger; Conductivity Cell with Flow-thru Chamber, Trace Measurements Usable Measuring Range: 0.000 ... 1.999 µS/cm 0.00 ... 19.99 µS/cm 32 ... 122 °F (0 ... 50 °C)
TetraCon® 325	1.: 1 µS/cm ... 2 S/cm 2.: K=0.475 cm ⁻¹ 3.: 4-electrode cell 4.: NTC 5.: 32 ... 212 °F (0 ... 100 °C) 6.: 2 bar 7.: IP 68 (electrode)	General Application/Water; Large Measuring Range 0.00 ... 19.99 µS/cm 0.0 ... 199.9 µS/cm 0.000 ... 1.999 mS/cm 0.00 ... 19.99 mS/cm 0.0 ... 199.9 mS/cm (32 ... 77 °F/0 ... 25 °C) 32 ... 122 °F (0 ... 50 °C) (MR: 0.0 ... 199.9 mS/cm up to 110.0 mS/cm at 122 °F/50 °C)
TetraCon® DU/T	1.: 1 µS/cm ... 2 S/cm 2.: K=0.778 cm ⁻¹ 3.: 4-electrode cell 4.: NTC 5.: 32 ... 140 °F (0 ... 60 °C) 6.: 2 bar 7.: IP 68 (electrode)	General Application/Water; Large Measuring Range 0.00 ... 19.99 µS/cm 0.0 ... 199.9 µS/cm 0.000 ... 1.999 mS/cm 0.00 ... 19.99 mS/cm 0.0 ... 199.9 mS/cm (32 ... 77 °F/0 ... 25 °C) 32 ... 122 °F (0 ... 50 °C) (MR: 0.0 ... 199.9 mS/cm up to 110.0 mS/cm at 122 °F/50 °C)

Installation components for LRD 01/LRD 325
Conductivity cells and TFK 325-EST Temperature sensor

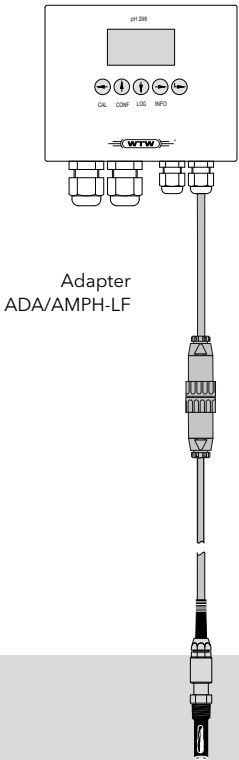
For the installation of conductivity electrodes, different adapters are available.
Examples are the ADA-LF-DN20 (PVC) or the EST-LRD (1.4571).



System Configurations Analog Systems
Conductivity Monitors Series 298

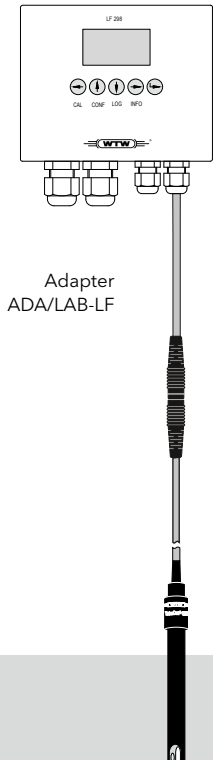
LF 298

Configuration Example	Order No.
LF 298 NTC	391 230
ADA/AMPH-LF	303 215



	Order No.
LRD 01-7	302 222
LRD 325-7	302 229

Configuration Example	Order No.
LF 298 NTC	391 230
ADA/LAB-LF	303 216



	Order No.
LR 325/01	301 961
optional:	
LR 325/001	301 962
TetraCon® 325	301 960

System Configurations Analog Systems

Chlorine Monitors Series 298

Model	Description	Order No.	
Analog chlorine sensors			
FCML 412 N	pH independent chlorine sensor FCML 412 N, electrochemical measurement, appropriate for the online measurement of free chlorine in drinking water and swimming pools. Range: 0-2 mg/l; pH range 4-9	201187	OA
TCML N	Chlorine sensor TCML N, electrochemical measurement, appropriate for the online measurement of total chlorine in drinking water and swimming pools. Range: 0-2 mg/l	201192	OA
Accessories analog chlorine sensors			
AK-CI 298	2-wired cable to connect the chlorine sensors FCML 68/412 (N) and TCML (N) to the controllers CI 298 and Multiline 1000, 5m. When ordering a drinking water panel, the cable does not need to be ordered separately.	108153	OA
ZBK-TCML N	Maintenance kit for chlorine sensor TCML N(-S). Includes 100 ml electrolyte and 1 replacement membrane.	205245	OA
ZBK-FCML 412 N	Maintenance kit for chlorine sensor FCML 412 N(-S). Includes 100 ml electrolyte and 1 replacement membrane.	205246	OA
ZBK-FCML 412	Maintenance kit for chlorine sensor FCML 412. Includes 100 ml electrolyte and 1 replacement membrane.	205247	OA
ZBK-FCML 68	Maintenance kit for chlorine sensor FCML 68. Includes 100 ml electrolyte and 1 replacement membrane.	205248	OA
ZBK-TCML	Maintenance kit for chlorine sensor TCML(-S). Includes 100 ml electrolyte and 1 replacement membrane.	205249	OA

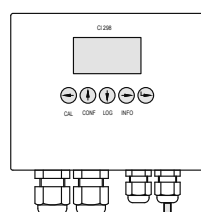
Configuration Guide Analog Chlorine Sensors		
	1. Measuring range 2. Measuring principle 3. Temperature compensation 4. Temperature range 5. Pressure range	CI 298
FCML 412 N FCML 68 TCML N	1. 0.01 ... 2.00 mg/l Cl ₂ 2. Amperometric 3. Pt 1000 4. 32 ... 113 °F (0 ... 45 °C) 5. 0.5 bar overpressure (FCML 68: 1 bar)	Drinking water

CL 298

Configuration Example Order No.

CI 298 Pt1000
AK-CI 298

801 254
108 153



AK-CI 298



Order No.

FCML 412 N

201 187

optional:

FCML 68
TCML N

201 195
201 192

Process electrodes for industrial application

Model	Description	Order No.	
Analog Process electrodes (without Temp)			
PL 80-120pH	Low-maintenance pH combination electrode, glass shaft, SILAMID® reference, 2 hole diaphragm, DuraLid reference system, sphere membrane, H glass, S8 plug head, length 120 mm (4.72 in), 12 mm (0.47 in) Ø, 0...14 pH, 32...266 °F (0...130 °C)	109233	01
PL 80-225pH	Low-maintenance pH combination electrode, glass shaft, SILAMID® reference, 2 hole diaphragm, DuraLid reference system, sphere membrane, H glass, S8 plug head, length 225 mm (8.86 in), 12 mm (0.47 in) Ø, 0...14 pH, 32...266 °F (0...130 °C), for installation into CHEMtrac 830 M	109234	01
SL 80-120 PH	SteamLine combination electrode with screw plug head (ATEX II 1/2G). Low-maintenance pH combination electrode, hot steam sterilizable, CIP and SIP able, glass shaft, SILAMID® reference, ceramic junction, pressurized RheoLid ref. system, sphere membrane, S glass, screw plug head, length 120 mm, 12 mm Ø, 0...14 pH, 0...140 °C (ATEX II 1/2G)	285113213	MZ-02
SL 80-225 PH	Low-maintenance pH combination electrode, hot steam sterilizable, CIP and SIP able, glass shaft, SILAMID® reference, ceramic junction, pressurized RheoLid ref. system, sphere membrane, S glass, screw plug head, length 225 mm, 12 mm Ø, 0...14 pH, 0...140 °C (ATEX II 1/2G)	285113246	MZ-02
PLA 90-120 pH	Low-maint. pH comb. electrode, glass shaft, SILAMID® ref. with silver ion trap, PTFE junction, RheoLid electrolyte with KCl storage rings, sphere membrane, A glass, screw plug head, length 120 mm, 12 mm Ø, 0...14 pH, -5...+110 °C (ATEX II 1/2G)	285114480	MZ-02
PLA 90-225 pH	Low-maint. pH comb. electrode, glass shaft, SILAMID® ref. with silver ion trap, PTFE junction, RheoLid electrolyte with KCl storage rings, sphere membrane, A glass, screw plug head, length 225 mm, 12 mm Ø, 0...14 pH, -5...+110 °C (ATEX II 1/2G)	285114485	MZ-02
Analog Process electrodes (with Temp)			
PL 82-225pHT VP	Low-maintenance pH combination electrode with Pt 100, glass shaft, SILAMID® reference, 2 hole diaphragm, DuraLid reference system, sphere membrane, H glass, VP screw plug head, length 225 mm (8.86 in), 12 mm (0.47 in) Ø, 0...14 pH, 32...266 °F (0...130 °C), for installation into CHEMtrac 830 M	109239	01
SL81-120 PHT-VP	Low-maint. pH comb. electrode with Pt 1000, hot steam sterilizable, CIP and SIP able, glass shaft, SILAMID® ref., ceramic diaphr., press. RheoLid ref. system, sphere membrane, S glass, VP screw plug head, length 120 mm, 12 mm Ø, 0...14 pH, 0...140 °C (ATEX II 1/2G)	285113308	MZ-02
SL81-225 PHT-VP	Low-maint. pH comb. electrode with Pt 1000, hot steam sterilizable, CIP and SIP able, glass shaft, SILAMID® ref., ceramic diaphr., press. RheoLid ref. system, sphere membrane, S glass, VP screw plug head, length 225 mm, 12 mm Ø, 0...14 pH, 0...140 °C (ATEX II 1/2G)	285113316	MZ-02
PL81-120 pHT VP	Low-maintenance pH combination electrode with Pt 1000, glass shaft, SILAMID® reference, 2 hole junction, DuraLid reference system, sphere membrane, H glass, VP screw plug head, length 120 mm, 12 mm Ø, 0...14 pH, 0...130 °C (ATEX II 1/2G)	285113550	MZ-02
PL 81-225pHT VP	Low-maintenance pH combination electrode with Pt 1000, glass shaft, SILAMID® reference, 2 hole junction, DuraLid reference system, sphere membrane, H glass, VP screw plug head, length 225 mm, 12 mm Ø, 0...14 pH, 0...130 °C (ATEX II 1/2G)	285113560	MZ-02
PLA91-120pHTVP	Low-maint. pH comb. Electrode with Pt1000, glass shaft, SILAMID® ref. with silver ion trap, PTFE junction, RheoLid electrolyte with KCl storage rings, sphere membrane, A glass, VP screw plug head, length 120 mm, 12 mm Ø, 0...14 pH, -5...+110 °C (ATEX II 1/2G)	285114530	MZ-02
PLA91-225pHTVP	Low-maint. pH comb. Electrode with Pt1000, glass shaft, SILAMID® ref. with silver ion trap, PTFE junction, RheoLid electrolyte with KCl storage rings, sphere membrane, A glass, VP screw plug head, length 225 mm, 12 mm Ø, 0...14 pH, -5...+110 °C (ATEX II 1/2G)	285114535	MZ-02
Accessories for pipe mounting			
MZ WIS 40 IC 44	Weld-in socket fitting (chamfered), stainless steel (1.4404), for installation of CHEMtrac 830 M into pipes; adaption DN25.	108532	0F
MZ WIS 40 ST 44	Weld-in socket fitting (straight), stainless steel (1.4404), for installation of CHEMtrac 830 M into pipes; adaption DN25.	108533	0F
CHEMtrac 830 M	Manual retractable housing, stainless steel (1.4404), for installation/changing/ maintenance of pH electrodes without process interruption (specific valve); adaption DN25.	109237	0F



To connect analog sensors to transmitters of the IQ SENSOR NET, see junction boxes in section Accessories



Detailed technical data can be found in the brochure "**Data sheets process instrumentation**" (999266US); also available on our homepage www.xylenanalytics.com/en under Customer Support/Downloads/Datasheets.

Classification of Process Electrodes

PL					ProcessLine electrode with H glass
SL					SteamLine electrode
PL-A					ProcessLine electrode with A glass
80					PL: 2 hole junction; SL: ceramic diaphragm; both: without Temp.
81					PL: 2 hole junction; SL: ceramic diaphragm; both: with Pt1000
82					PL: 2 hole junction; SL: ceramic diaphragm; both: with Pt100
90					PTFE diaphragm, without Temp.
91					PTFE diaphragm, with Pt1000
120					length 120 mm
225					length 225 mm
pH					pH
pHT					pH + Temp.
-					S8 screw plug head
VP					VP screw plug head

Technical Data CHEMtrac 830 M Retractable Housing

Description	Manual retractable housing, stainless steel (1.4404/316L), for all kind of Ø0.47"/8.86" (Ø12/225 mm) sensors w/ PG13.5 thread
Max. pressure	16 bar (at max. 120 °C)
Max. allowed temperature	140 °C (at max. 10 bar)
Flushing chamber connection	G 1/8"
Guaranty	1 year for defects of quality
Process connection thread	Ingold DN 25

Application of process pH electrodes

Electrode	Wastewater and drinking water application	Industrial application	Description
SensoLyt®	SEA/SE	heavily loaded municipal wastewater	The electrodes of the SensoLyt® series can be used in municipal wastewater as well as in drinking water. There are electrodes specially optimized for measurement in wastewater for different degrees of contamination. The armored versions are designed for installation in the SensoLyt® armature of the IQ SENSOR NET.
	TFA	non typical or industrial municipal wastewater	
	SEA-HP	increased pressure and temperature conditions	
	ECA/EC	normally loaded municipal wastewater	
	DWA/DW	Drinking Water	
SteamLine	SLxx-xxx	- Process chemistry - Fermenter - Pharmaceuticals - Biotechnology - Food and beverage production	The low maintenance StreamLine electrodes are designed to be used in a SIP treatment (sterilization in place) and a CIP cleaning (clean in place), which uses hot concentrated caustic soda. Due to the integrated pressurization, no electrolyte must be added. This ensures a reliable and reproducible measurement and that fouling of the reference system is mostly avoided. Therefore, lifetime is significantly better.
ProcessLine	PL8x-xxx and PL9x-xxx	- Process wastewater - Higher temperatures - Chemical industry (extreme ion strength, strongly oxidizing, acidic and alkaline media) - Media containing solvents - Breweries - Waste incinerators - Paper industry - Power plants - Plastic chemistry	The special design brings ProcessLine electrodes very close to the optimum of liquid electrolyte electrodes in terms of accuracy, stability, speed and durability. Refilling of the electrolyte is not necessary, resulting in lower maintenance requirements. The electrodes are differentiated into hole and PTFE annular junctions. Those of the PL8x series have two open connections in direct contact with the measured medium, while the PL9x series are equipped with a PTFE junction. Both models minimize the risk for contamination/ blocking of the junction, the main source for measuring errors, as well as the failure of the electrode. In the case of strongly fluctuating temperatures of the medium, a PTFE diaphragm is often more suitable, since with a perforated diaphragm the electrolyte is „pumped out“. Otherwise, the decision in favor of a perforated or PTFE diaphragm depends primarily on previous experience with comparable products.

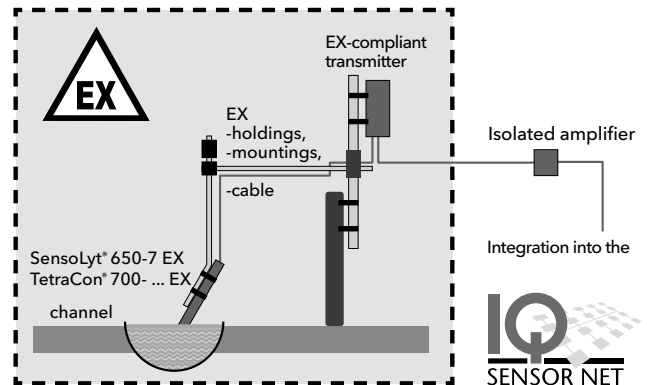
ATEX - pH and Cond in hazardous areas

For measurements of pH and conductivity in hazardous areas (EX-zone), WTW now offers complete single point measurement systems – composed of sensors, transmitters, isolated amplifiers, accessories and certificates for zone 1 IIB and IIC T6, respectively.

The components can be operated as a single point measurement system or can be integrated into the IQ SENSOR NET via the MIQ module MIQ/IC2. The power supply is ensured via the isolated amplifier, which, for its part, is provided separately or directly from the IQ SENSOR NET.

Examples for configuration

Examples for configuration		
Parameter	pH	Conductivity
Measuring device	Sensolyt® 650-7 EX armature Sensolyt® ... EX electrode	TetraCon® 700-... EX
Transmitter	StratosProA201xpH-0 or StratosProA201xpH-1	StratosProA201xCond-0 or StratosProA201xCond-1
Isolated amplifier	WG21A7 or WG21A7Opt.336 or WG21A7Opt.470 or WG21A7Opt.336,470	WG21A7 or WG21A7Opt.336 or WG21A7Opt.470 or WG21A7Opt.336,470
Accessories	EX-compliant accessories	



Model	Description	Order No.	
EX Transmitter			
Stratos Pro A 201 X pH-0	pH transmitter for hazardous areas (II 2(1)G Ex ib[ia] IIC T4) with 1 analog current output.	109444EX	OE
Stratos Pro A 201 X pH-1	pH transmitter for hazardous areas (II 2(1)G Ex ib[ia] IIC T4) with 2 analog current outputs.	109445EX	OE
Stratos Pro A 201 X Cond-0	Conductivity transmitter for hazardous areas (II 2(1)G Ex ib[ia] IIC T4) with 1 analog current output.	300944EX	OE
Stratos Pro A 201 X Cond-1	Conductivity transmitter for hazardous areas (II 2(1)G Ex ib[ia] IIC T4) with 2 analog current outputs.	300945EX	OE
Isolated amplifiers			
WG 21 A7	Isolated amplifier to power the EX-transmitter StratosPro in an intrinsically safe way, power supply 90 ... 253V, explosion protection II (1) G [Ex ia Ga] IIC.	109446EX	OE
WG 21 A7 Opt. 336	Isolated amplifier to power the EX-transmitter StratosPro in an intrinsically safe way, power supply 24VAC/DC, explosion protection II (1) G [Ex ia Ga] IIC.	109447EX	OE
WG 21 A7 Opt. 470	Isolated amplifier to power the EX-transmitter StratosPro in an intrinsically safe way, power supply 90 ... 253V, HART® communication, explosion protection II (1) G [Ex ia Ga] IIC.	109448EX	OE
WG 21 A7 Opt. 336, 470	Isolated amplifier to power the EX-transmitter StratosPro in an intrinsically safe way, power supply 24VAC/DC, HART® communication, explosion protection II (1) G [Ex ia Ga] IIC.	109449EX	OE

Model	Description	Order No.	
EX pH/ORP sensor and electrodes			
SensoLyt® SEA EX	pH electrode for hazardous areas (only with SensoLyt® 650-7 Sensor), measuring range 2 ...12 pH, for heavily polluted wastewater.	109115EX	OI
SensoLyt® ECA EX	pH electrode for hazardous areas (only with SensoLyt® 650-7 sensor), measuring range 2 ...12 pH, for normally polluted wastewater (e.g. municipal wastewater).	109117EX	OI
SensoLyt® SEA-HP EX	pH electrode for hazardous areas (only with SensoLyt® 650-7 sensor), measuring range 4 ...12 pH, for use under high pressure/temperature conditions.	109118EX	OE
SensoLyt® DWA EX	pH electrode for hazardous areas (only with SensoLyt® 650-7 sensor), measuring range 0 ...14 pH, for drinking water applications.	109119EX	OI
SensoLyt® PtA EX	ORP electrode for hazardous areas (only with SensoLyt® 650-7 sensor), measuring range ±2000 mV, for heavily polluted wastewater.	109125EX	OE
SensoLyt® 650-7 EX	Analog pH/Redox sensor for hazardous areas (Ex ib IIC T6 Gb X) with high impedance signal transmission, for the use with StratosProA201XpH-0(-1). With integrated temperature sensor (NTC) and 7m cable with open cable ends. Adequate pH electrodes have to be ordered separately.	109195EX	OC
EX Conductivity Cells			
TetraCon® 700-7 EX	Analog 4 electrode conductivity cell for hazardous areas (Ex ib IIC T6 Gb X), for use with StratosProA201XCond-0(-1). With integrated temperature sensor and 7m cable with open cable ends.	302316EX	OA
EX Accessories			
UA EX	Universal extension assembly (incl. handle and set of seals) for mounting of EX-sensors SensoLyt® 690-7 EX or TetraCon® 700-... EX. Length without sensor: 175 mm (6.89 in)	109267EX	OA
EH/P 170 EX	Pendulum mounting assembly for online sensors	109270EX	OB
EH/F 170-1,5 EX	Swing mounting assembly for online sensors, boom length 1.5m, incl. Chain	109272EX	OB
EH/F 170-2,5 EX	Swing mounting assembly for online sensors, boom length 2.5m, incl. Chain	109273EX	OB
EH/W 170 EX	Fixture assembly for direct wall mounting	109274EX	OB
BE/M 170-D EX	Pivoting wall mounting for swing or pendulum holder	109275EX	OB
BE/R 170 EX	Pipe fixture	109278EX	OB
BE/R 170-D EX	Swivel/pivot clamp fixture for rail mounting	109279EX	OB
BE/ST 170 EX	Floor mounting stand	109280EX	OB
BE/ST 170-R EX	Pipe mounting stand	109281EX	OB
BE/ST 170-M EX	Wall mounting stand	109283EX	OB
MS/RKH 170 EX	Pipe bracket for second sensor at EH/P 170	109289EX	OB
MS/KK 170 EX	Double junction clamp for EH/F 170 or EH/P 170 at BE/ST 170-x for second sensor	109290EX	OB
EH/U 170 EX	Sensor holder for 1 sensor	109320EX	OE
EH2/U 170 EX	Sensor holder for 2 sensors	109323EX	OF
ZU 0274	Pipe-mount kit for Stratos series	109351EX	OE
ZU 0738	Panel-mount kit for Stratos series	109353EX	OE
ZU 0737	Protective hood for Stratos series	109355EX	OE
WA 700/10 EX	Retractable armature up to 10 bar	480100EX	OH
WA 700/2 EX	Retractable armature up to 2 bar	480102EX	OH
also suitable (self-assessment of products by operator required)			
ESS 700 VA/N	Stainless steel (1.4571) weld-in socket, for measurements in pipelines, for use with all sensors of 650/690/700(IQ)/701(IQ) series. Please order suitable sensor adapter (ADA-XX) separately.	203755	OH
ESS 700 VA/10	Stainless steel weld-in socket, for measurements in pipelines with up to 10 bar pressure, useable for all series 650/690/700(IQ)/701(IQ) sensors. Please order suitable sensor adapter (ADA-XX) separately.	203757	OH
ADA-DF 10	Adapter for mounting of pH/ORP armature SensoLyt® 690/700 in flow-thru vessels EBS(T)700-DU/N or ESS 700-VA/N	203779	OH
ADA-DF 12	New Adapter for mounting sensors TriOxmatic® 690/ 70X, CellOx® 700 and TetraCon® 700 in ESS 700 VA/10 weld-in socket	203783	OX
ESS-WA 700/ST	Steel (St 33) weld-in socket for WA 700/2 und WA 700/10 retractable armatures	480104	OX
ESS-WA 700/VA	Stainless steel (1.4571) weld-in socket for WA 700/2 und WA 700/10 retractable armatures	480106	OH
ADA-WA 2	New Adapter for mounting of IQ sensors TriOxmatic® 690/70X and TetraCon® 700 into WA 700/2 and WA 700/10 retractable armatures	480110	OX
ADA-WA 3	Adapter for mounting of pH/ORP armature SensoLyt® 650/690/700 into WA 700/2 and WA 700/10 retractable armatures	480112	OX
S/CH	Shackle for chain fitting	505123	OF
CH/SO	**** Chain per meter. High tensile strength and UV-resistant.	505124	OF



Detailed technical data can be found in the brochure **"Data sheets process instrumentation"** (999266US); also available on our homepage www.xylemanalytics.com/en under Customer Support/Downloads/Datasheets.

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Price List for WTW Process Instrumentation - English - all prices without local taxes.

www.xylemanalytics.com

Sample Preparation

Model	Description	Order No.	
Accessories PurCon®/PurCon® IS			
PF 105	Sample bypass unit for direct supply of WTW analyzer with sample, completely mounted; not included: pumps	000670	OF
SET1/PurCon®	Set of pump tubing for PurCon® permeate pump.	810002	OF
AF/PurCon®	Spare air filter for PurCon® compressor LP-60HN.	810005	OF
AF-N/PurCon	Spare air filter for PurCon® compressor AP-60(N).	810015	OF
PCIS-PL5/H	Permeate line 5 m (16.2 ft) for PurCon® IS, with freeze protection.	810065	OF
PCIS-PL10/H	Permeate line 10 m (33 ft) for PurCon® IS, with freeze protection.	810066	OF
PCIS-PL20/H	Permeate line 20 m (65 ft) for PurCon® IS, with freeze protection.	810067	OF
SW/P102	Exchange cutting unit for P102, P102/1 and FGT 615-2 top-and bottom part.	810117	OX
FT/PC	Filter module set (4 pieces) for PurCon® and PurCon® IS.	820065	OH
LSet/PC	Set air tubing for PurCon®.	820066	OF
SL/SET/PC	Piping Set for PurCon®.	820067	OH
FT/PCIS-2	Filter module set (2 pieces) for PurCon® IS.	820068	OH
SLSet/PCIS	Kit of tubes for PurCon® IS (inside of filter modules / controller unit).	820069	OH
VB 105	Overflow vessel with continuous sample flow for analyzer.	830860	OH
P 105	Submersible pump without cutting blade for PurCon®, PF 105 or FPB.	850007	OF
FGT 615-2 = P102/1	Low-power submersible pump with cutting blade for supplying wastewater from the aeration stage of wastewater treatment plants.	850010	OF
PZN 30	Fabric tubing for pumps P101/P102/P105 (30 m)	850019	OF
BS-P102	Mounting set for submersible pumps P 101, P102/1 and P 105 (V4A stainless steel chain (length 5 m/16.2 ft) and 2 stainless steel shackle).	850110	OF
ADA-PS	GEKA adapter for connecting pumps P105, P101 and P102/1 with hose PZ105.	850115	OX



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Secondary Sedimentation Stage/Final Effluent

In the effluent water from the secondary sedimentation the concentration of solids is often so high that sample preparation is required before on-line analysis can take place. In the effluent from wastewater treatment plant it is possible to carry out on-line analysis with TresCon® without any sample preparation as the analyzer module uses the AutoClean® method; this is a very efficient automatic self-cleaning system.

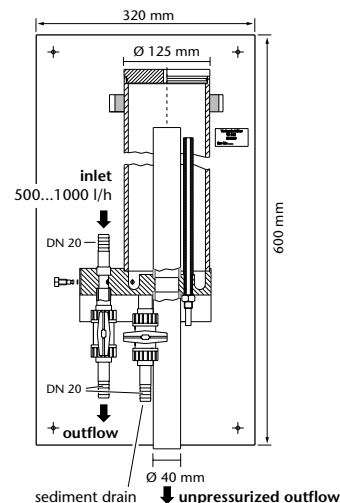
Final Effluent

If TresCon® analyzers are used in slightly loaded wastewater such as wastewater treatment plant effluent the

- PF 105 sample bypass** Order No. 000 670
 is used to provide the analyzer module with unfiltered sample. The unit consists of a Y-shaped pipe branch with a valve for regulating the flow in the bypass. The supply to the TresCon® analyzer can be set with a second fine valve in the sample branch. To protect the TresCon® analyzer module coarse particles are retained by a woven-wire sieve in the branch.
- Overflow vessel VB 105** Order No. 830 860
 with continuous sample flow is used to feed the analysis modules with non-filtrated sample. The unit is made up of a cylindrical vessel with a volume of approx. 2 l. This vessel is continuously being flown through and thus always supplies up-to-date sample.



PF 105 sample bypass



Overflow vessel VB 105

Technical Data PF 105

Tubing connections	20 mm dia.
Permeate tubing	Length 1 m (1.09 yds), 6 mm (0.24 in.) I.D.
Feed	1000 ... 1500 l/h
Branch	Approx. 3 l/h
Dimensions (H x W)	395 x 330 mm (1.28 x 1.07 ft.)

Secondary Sedimentation

PurCon®

Apart from its use in aeration basins, the PurCon® system is ideal for the preparation of samples from the secondary sedimentation stage. In such cases PurCon® also continuously supplies an adequate amount of high-quality permeate. As only residual solids need to be removed from the sample, extremely low maintenance requirements are achieved.

Sampler

Model	Description	Order No.	
Stationary Samplers			
PB-W			
PB-W/230V	Compact sampler 230 V (50/60 Hz) for wall mounting	503200	OE
PB-W/115V	Compact sampler 115 V (50/60 Hz) for wall mounting	503201	OE
PB-W Accessories			
13/PB	13 L PE collection container for PB-W and PB-M-S/1.	503311	OF
25/PB	25 L PE collection container for PB-W.	503314	OF
Schlauch/10mm/PB/1	PVC suction tubing, 10mm I.D., fabric reinforced, per meter	503337	OF
SR/180mm/PB	Suction piece V2A, length 180 mm, for tubing 10 mm ID (503337).	503339	OF
SK/10mm/PB	Strainer for suction piece SR/180 mm/PB (503339), 10 mm.	503343	OF
PB-M Accessories			
KFS/PB-W	Capacitive level sensor (contact-free) for industrial applications for PB-W.	503389	OF
Mobile Samplers			
PB-M			
PB-M-S/1	Compact portable sampler with integrated rechargeable battery and 1 x 13 L PE sample container. Supplied with 5 m (16.2 ft) suction tubing, fitting and tubing end piece. Battery charger is not included.	503250	OE
PB-M-L/R24	Portable sampler with integrated rechargeable battery and 24 x 1 l PE container. Supplied with 5 m (16.2 ft) suction tubing, fitting and tubing end piece. Battery charger is not included.	503280	OE
PB-M Accessories			
1/PB-M-L	1 L PE sample bottle (segment) for PB-M-L/R24.	503304	OF
13/PB	13 L PE collection container for PB-W and PB-M-S/1.	503311	OF
Schlauch/10mm/PB/1	PVC suction tubing, 10mm I.D., fabric reinforced, per meter	503337	OF
SR/180mm/PB	Suction piece V2A, length 180 mm, for tubing 10 mm ID (503337).	503339	OF
SK/10mm/PB	Strainer for suction piece SR/180 mm/PB (503339), 10 mm.	503343	OF
USB/PB	USB cable from USB 2 to mini USB for PB-M and PB-S.	503363	OF
LG/65/PB-M	Battery charger IP 65 for PB-M.	503371	OE
EA/7,5/PB-M	Rechargeable battery, 7.5 Ah for PB-M.	503372	OF
MK/10m/PB	Flow signal cable with 10 m (open cable ends) for PB-M and PB-S.	503420	OF
PB 25 S and PB 25 S/24 Accessories			
V/Schlauch/25 S	Extension hose with quick coupling for PB 25, cable 2 m (6.5 ft), I.D. 8 mm	000428	OX
Schlauch/25 S	Suction tube with suction piece for PB 25, length 2 m (6.5 ft), 8 mm ID	000434	OX
EF/1/25	12 x 1.0 l PE sample bottles for PB 25	000443	OX
EF/0,5/25	12 x 0.5 l glass sample bottles for PB 25 (require the use of insert EW/25/0.5)	000444	OX
EW/25/0,5	Insert for 12 x 0.5 l glass sample bottles for PB 25	000449	OX



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Accessories

IQ SENSOR NET System



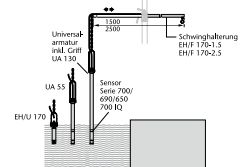
Sensor mountings
Armaturen und holders
see page 95



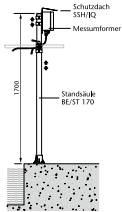
Mounting Controller/Modules
Schutzdächer und Montagesätze
see page 98



Cables
Sensor and connection cables
see pages 57, 62



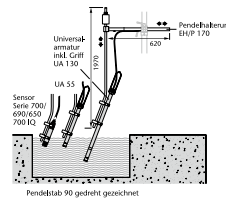
Full sets
For mounting up to 3 sensors with
Controllers/Modules
see page 98



Mounting stands and fixtures
For floor, rail and wall
mounting
see page 98



Fixtures
For swing and pendulum holder,
without stand
see page 98



**Swing, pendulum and
bracket holders**
To mount sensors and sensor
holders
see page 98



Cleaning Accessories
Spares for Cleaning Air Box
(pressurized air cleaning)
see page 113



Floaters
For variable water levels
see page 98



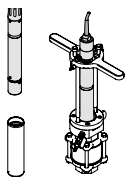
Chain and Shackle
For customized mounting solutions
see page 98



**Mounting systems for 60mm
sensors**
For spectral sensors and sludge
level sensor
see page 104



Junction Boxes
For connecting analog sensors to
the IQ SENSOR NET
see page 95



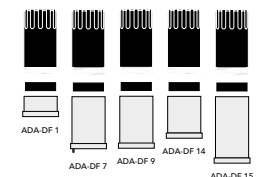
Retractable armatures
For pipe installation; in-service with-
drawal possible
see page 112



Flow-through armatures
For pipe installation; in-service with-
drawal possible
see page 106



Flow-through vessels
For bypass measuring
see page 106



Adaptors
For use with flow-through adaptors
and flow-through vessels
see page 110

Further process instrumentation



**Drinking Water flow through
armatures**
For pH/ORP, Cond and Chlorine
see page 124



Monunting analog sensors
For pH process electrodes and
conductivity cells
see pages 82, 86

Accessories

Model	Description	Order No.	
Junction Boxes, Connection Cables			
ADA/AMPH-LAB-LF	Adapter for mounting of laboratory conductivity cells to analog monitors of series LF 170.	303212	OF
KI/pH-MIQ/S	Connection box as wallmounting device, for high impedance plug head electrode use on IQ SENSOR NET Systems. K 5 S and TFK 150/325 temperature sensor separately necessary. Dimensions, W x H x D: 240 x 165 x 95 mm. Protection: IP 65	505544	OE
KI/LF-0,9/MIQ	Connection box for 2- and 4-electrode conductivity cells with NTC for use with IQ SENSOR NET systems with a cell constant of 0.917 cm ⁻¹ . Dimensions, W x H x D: 240 x 165 x 95 mm. Protection IP 65.	505570	OE
KI/LF-0,7/MIQ	Connection box for 2- and 4-electrode conductivity cells with NTC for use with IQ SENSOR NET systems with a cell constant of 0.778 cm ⁻¹ . For connection to laboratory-cells an adapter is required (303212 ADA AMPH LAB LF). Dimensions, W x H x D: 240 x 165 x 95 mm. Protection IP 65.	505571	OE
KI/LF-0,4/MIQ	Connection box for 2- and 4-electrode conductivity cells with NTC for use with IQ SENSOR NET systems with a cell constant of 0.475 cm ⁻¹ . For connection to laboratory-cells an adapter is required (303212 ADA AMPH LAB LF). Dimensions, W x H x D: 240 x 165 x 95 mm. Protection IP 65.	505572	OE
KI/LF-0,1/MIQ	Connection box for 2- and 4-electrode conductivity cells with NTC for use with IQ SENSOR NET systems with a cell constant of 0.1 cm ⁻¹ . For connection to laboratory-cells an adapter is required (303212 ADA AMPH LAB LF). Dimensions, W x H x D: 240 x 165 x 95 mm. Protection IP 65.	505573	OE
Sensor Extensions, Sensor Holders			
UA 55	Universal extension assembly (incl. handle and set of seals) for mounting of sensors of series 650/690/70X and 70X IQ, length without sensor: 317 mm (12.48 in)	109260	OA
UA 130	Universal extension assembly (incl. handle and set of seals) for mounting of sensors of series 650/690/70X and 70X IQ, length without sensor: 1067 mm (42.01 in)	109261	OA
UA-SO Armatur	** Universal extension assembly (incl. handle and set of seals) for mounting of sensors of series 650/690/70X and 70X IQ, length without sensor: selectable between 240...2600 mm (9.45...102.36 in)	109263V	OA
UA/DS	Spare set of O-ring seals for UA sensor extensions of all lengths	109265	OF
EH/SW	Single electrode holder in seawater design for direct mounting of series 650/690/70X and 70X IQ (SW) sensors	109317	OE
EH/U 170	Sensor holder for direct mounting of series 650/690/70X and 70X IQ sensors to a swing mounting assembly	109320	OE
EH2/U 170	Twin sensor holder for WTW sensors of series 650, 690, 70X and 70X IQ	109323	OF
EH3/U 170	Triple sensor holder for WTW sensors of series 650, 690, 70X and 70X IQ	109325	OF

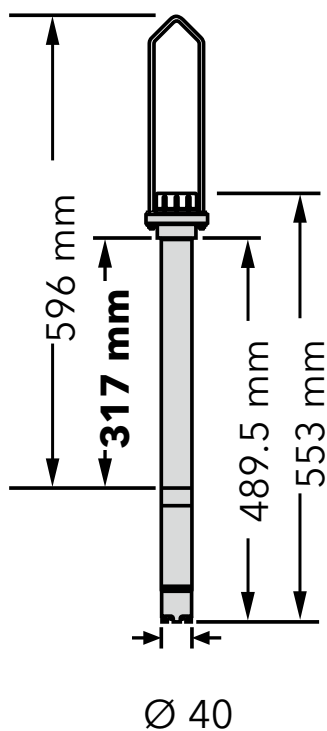
Sensor Extensions

Sensors not included with assemblies.

UA 55

Order No. 109 260

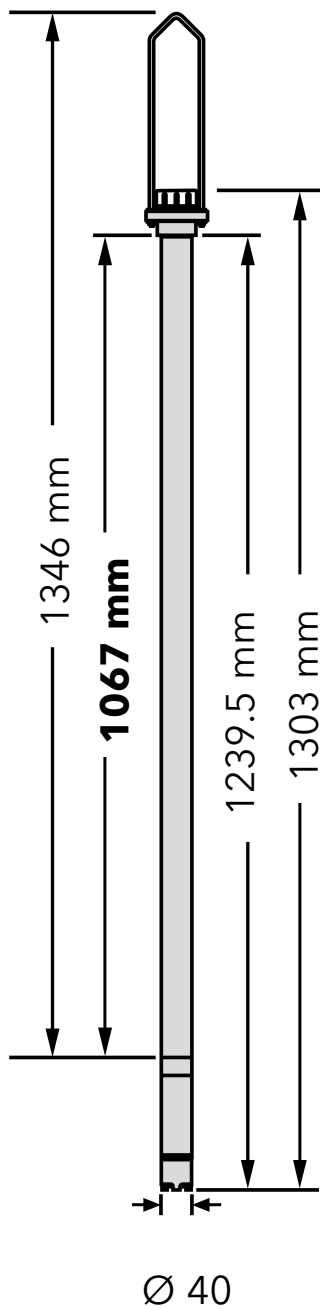
Equipped with
oxygen sensor
TriOxmatic® 700



UA 130

Order No. 109 261

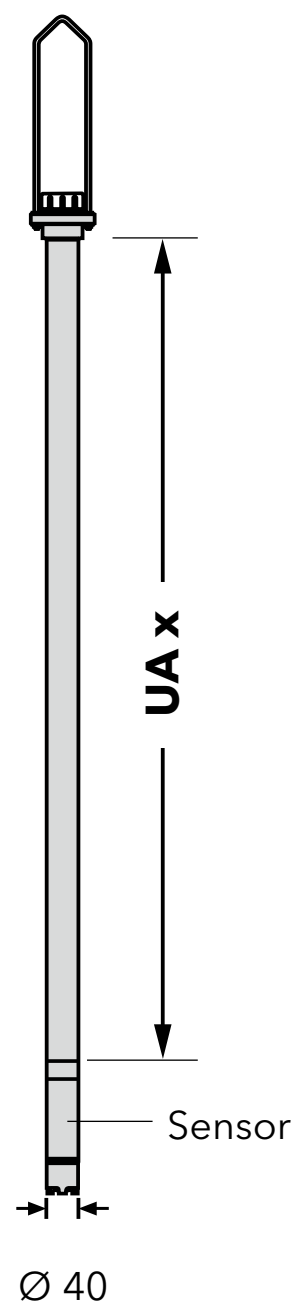
Equipped with
oxygen sensor
TriOxmatic® 700



UA-50

Order No. 109 263V**

Equipped with
oxygen sensor
TriOxmatic® 700



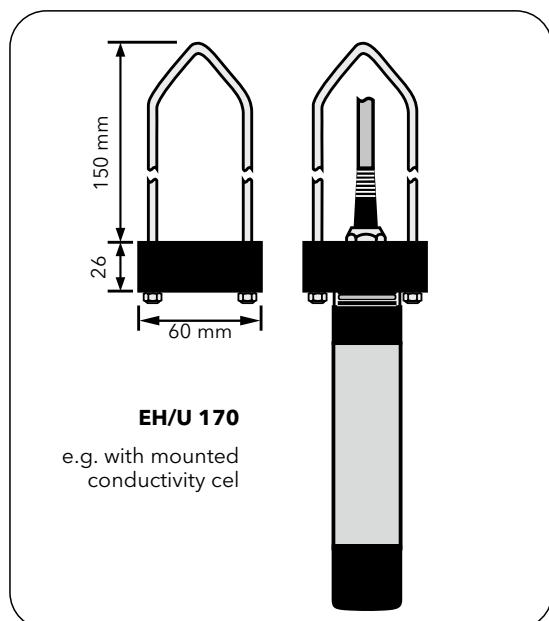
Sensor Holders

EH/U 170

Single sensor holder

Material: POM and stainless steel (1.4571)

Order No. 109 320

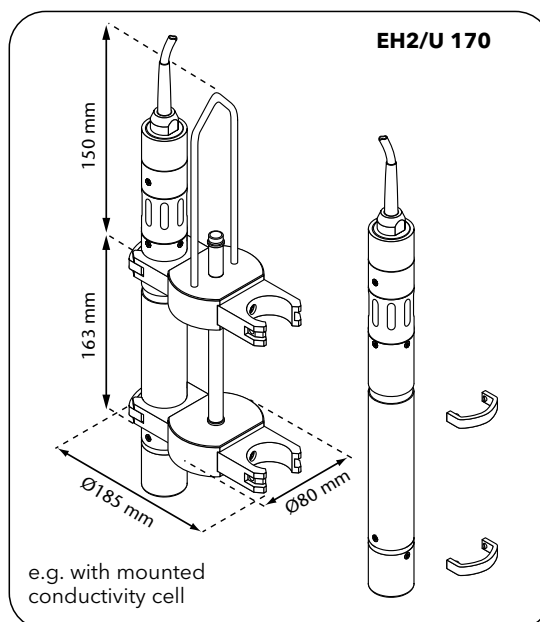


EH2/U 170

Twin sensor holder

Material: POM and stainless steel (1.4571)

Order No. 109 323

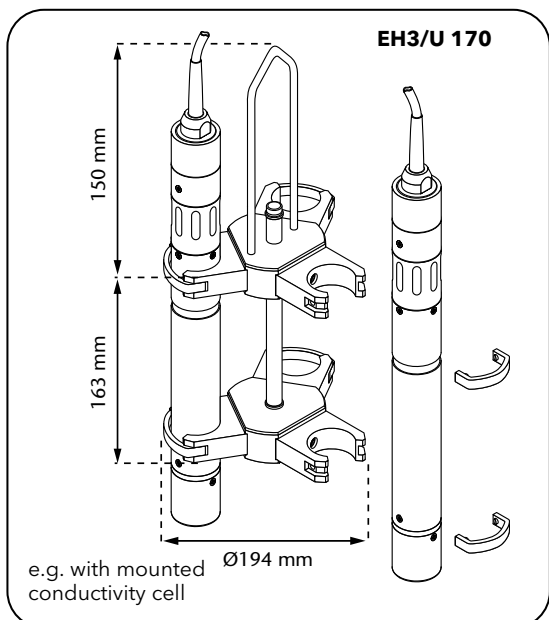


EH3/U 170

Triple sensor holder

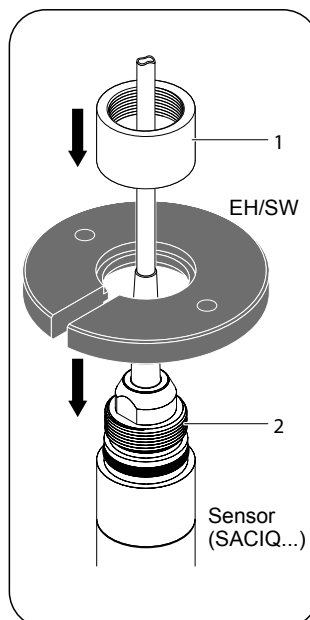
Material: POM and stainless steel (1.4571)

Order No. 109 325

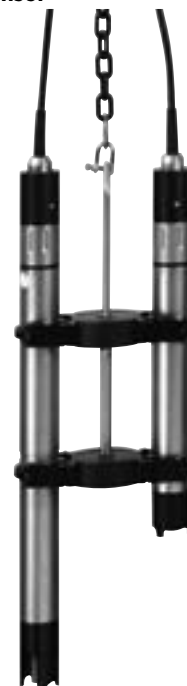


EH/SW

Order No. 109 317



EH2/U 170, equipped with pH- and oxygen sensor



Model	Description	Order No.	
Mounting Hardware			
Floaters			
S 200	Float with pendulum mounting assembly for on-line sensors with 40 mm (1.57 in) shaft diameter with UA 55 extension assembly or for spectral sensors with supplement kit VIS Set/EH for horizontal mounting.	108540	OB
S 200/2	Float with pendulum mounting assembly for 2 on-line sensors with 40 mm (1.57 in) shaft diameter with UA 55 extension assembly.	108542	OB
GWA	Weight ring for S 200 float	109232	OB
Swing-, pendulum- and bracket holders			
EH/P 170	SensoClean pendulum mounting assembly for installation of on-line sensors with 40 mm (1.57 in) shaft diameter and UA armatures. Supplied with adjustable boom (620 mm/24.4 in), pendulum mounting assembly (stainless steel 1.4301), movable counterweight for fine adjustment	109270	OB
EH/R 170	Sensor holder for mounting of on-line sensors with 40 mm (1.57 in) shaft diameter, in a fixed distance to a rail. Supplied with pendulum head (POM) and 1580 mm (62.2 in) long outrigger pipe (stainless steel 1.4301). Without clamp set fixture (Please order BE/R 170 separately)	109271	OH
EH/F 170-1,5	SensoClean swing mounting assembly for installation of on-line sensors with 40 mm shaft diameter and UA armatures. Supplied with plastic chain (4 m/13 ft) for use in wastewater and 1.5 m/4.9 ft boom (stainless steel 1.4301)	109272	OB
EH/F 170-2,5	SensoClean swing mounting assembly for installation of on-line sensors with 40 mm shaft diameter and UA armatures. Supplied with plastic chain (5 m/16 ft) for use in wastewater and 2.5 m/8.1 ft boom (stainless steel 1.4301)	109273	OB
EH/W 170	Sensor fixture assembly for direct wall mounting of UA armatures and sensors of series 650/690/70X and 70X IQ	109274	OB
Fixtures			
BE/M 170	Masonry fixture installation of EH-F 170 swing or EH/P 170 pendulum mounting assembly directly on the basin edge or on top of a wall	109276	OB
BE/R 170	Pipe fixture for installation of EH-F 170 swing or EH/P 170 pendulum mounting assembly directly to a pipe (e.g. basin railing)	109278	OB
BE/R 170-D	Swivel/pivot clamp fixture for mounting of a swing or pendulum mounting assembly directly to a pipe (e.g. basin railing)	109279	OB
MS/RKH 170	Pipe bracket for installation of a second sensor to a EH/P 170 pendulum mounting assembly (2 pieces required)	109289	OB
MS/KK 170	Double junction clamp for mounting of additional EH/F 170 swing or EH/P 170 pendulum mounting assembly to a Vario mounting stand BE/ST 170-X	109290	OB
Stands			
BE/ST 170	Robust Vario floor mounting stand for installation on a concrete base etc. Supplied with universal joint fixture to accommodate a swing or pendulum mounting assembly and 2 brackets for attaching a protective roof, incl. aluminium diecast base, wall-plugs and screws	109280	OB
BE/ST 170-R	Vario pipe mounting stand. Supplied with universal joint fixture to accommodate a swing or pendulum mounting assembly and 2 brackets for attaching a protective roof	109281	OB
BE/ST 170-M	Vario wall mounting stand. Supplied with universal joint fixture to accommodate a swing or pendulum mounting assembly and 2 brackets for attaching a protective roof	109283	OB
Controller/Module mounting			
SD/K 170	Sun shield for outdoor installation of junction boxes (e.g. junction box KI/pH 170) or an IQ SENSOR NET module	109284	OB
MR/SD 170	Mounting kit for attaching sun shields to pipes	109286	OB
MS/SD 170	Mounting kit for SSH/IQ sun shield to a mounting stand	109288	OB
SSH/IQ	Sun shield for mounting of IQ SENSOR NET modules and series 171/170 monitors to mounting stands	109295	OH
PMS/IQ	Kit for panel mounting of IQ SENSOR NET modules	480048	OH
PMS/IQ-X	PMS/IQ-X - for panel mounting of IQ SENSOR NET System 282/284. Recommended for versions with -PR, -MOD or -E(F).	480049	OH
THS/IQ	Kit for top hat rail mounting of IQ SENSOR NET modules	480050	OH
WMS/IQ	Kit for wall mounting of IQ SENSOR NET modules	480052	OX
Mounting sets			
IN/SET1	Installation set for mounting of one on-line sensor. Supplied with: Single sensor holder EH/U 170; SensorClean swing mounting EH/F 170-1,5; Vario floor mounting stand BE/ST 170; Sun shield SSH/IQ	109304	OB
IN/SET2	Installation set for mounting of up to two on-line sensors. Supplied with: Twin sensor holder EH2/U 170; SensorClean swing mounting EH/F 170-1,5; Vario floor mounting stand BE/ST 170; Sun shield SSH/IQ	109305	OB
IN/SET3	Installation set for mounting of up to three on-line sensors. Supplied with: Tripple sensor holder EH3/U 170; SensorClean swing mounting EH/F 170-1,5; Vario floor mounting stand BE/ST 170; Sun shield SSH/IQ	109306	OB
Chain/Shackle			
S/CH	Shackle for chain fitting	505123	OF
CH/SO	**** Chain per meter. High tensile strength and UV-resistant.	505124	OF

Fixtures

BE/R 170

Order No.: 109 278

With the BE/R 170 clamp set, a swing or pendulum mounting assembly can be fixed directly to a pipe; e.g. a handrail.

Material	Stainless steel 1.4301/diecast Al/POM
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BE/R 170-D

Order No.: 109 279

The swivel/pivot clamp fixture provides secure connection of a swing or pendulum mounting assembly to a horizontal pipe rail.

Material	Stainless steel 1.4301/diecast aluminum
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MR/SD 170

Order No.: 109 286

Mounting kit for sun shields, suitable for horizontal or vertical pipe rails with diameters of 0.98 to 2.36 in. (25 - 60 mm). Sun shield not included.

Material	Stainless steel 1.4301
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BE/M 170

Order No.: 109 276

With the BE/M 170, a swing or pendulum mounting assembly can be inexpensively installed directly at the basin edge or on top of a wall. It consists of a flange clamp with a clamping lever and a bolt-on base plate.

Material	Stainless steel 1.4301/diecast Al/POM
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Sun Shields

SD/K 170

Order No.: 109 284

Sun shield for mounting a junction box or an IQ SENSOR NET module in the open air. Mounting kit MR/SD 170 is additionally required for attachment to vertical or horizontal pipes.

Dimensions	5.59 x 9.06 x 3.43 in. (142 x 230 x 87 mm) (H x W x D)
Material	Stainless steel, 1.4301

SSH/IQ

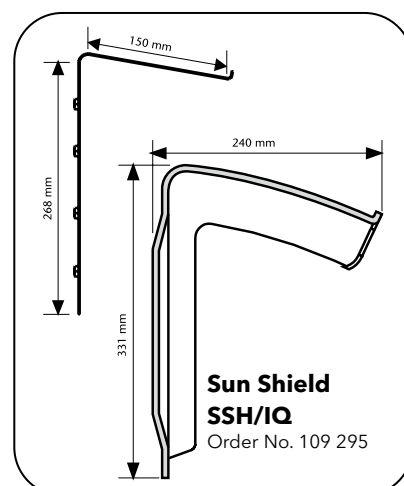
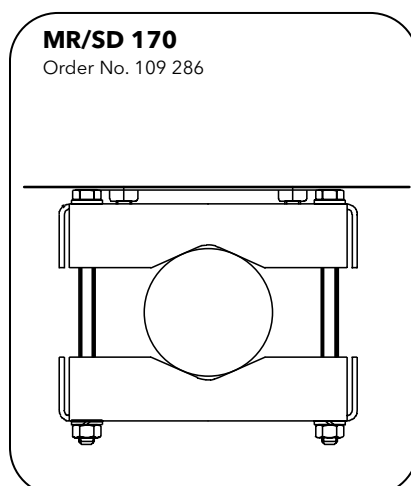
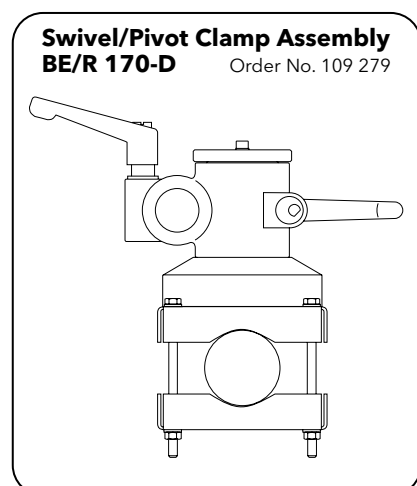
Order No.: 109 295

Sunshield for mounting series 171, 170 and IQ SENSOR NET monitors on a Vario Mounting Stand.

Dimensions	13.03 x 13.54 x 9.45 in. (331 x 344 x 240 mm) (H x W x D)
Material	ASA (Dust gray color)



IQ SENSOR NET under sun shield SSH/IQ

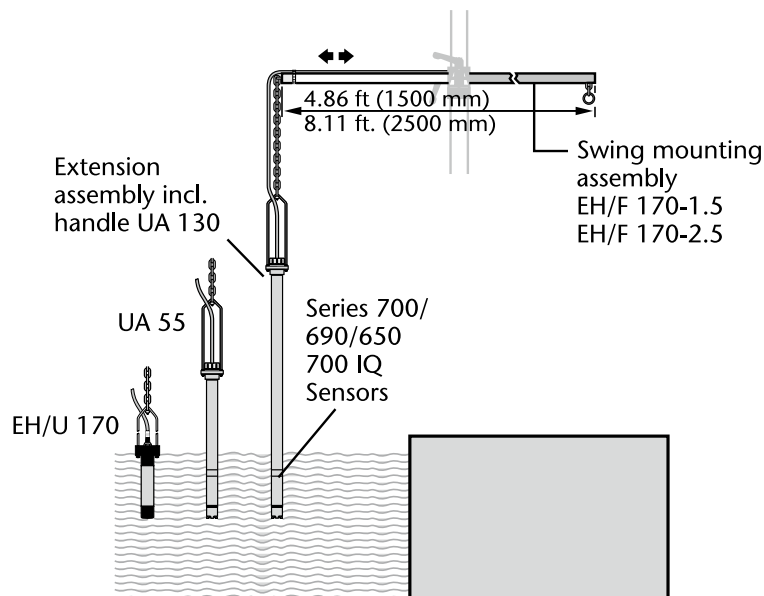


Mounting Hardware Installation Flexibility

Measurements in Basins

Recommended sensor holding device:

Swing mounting assembly

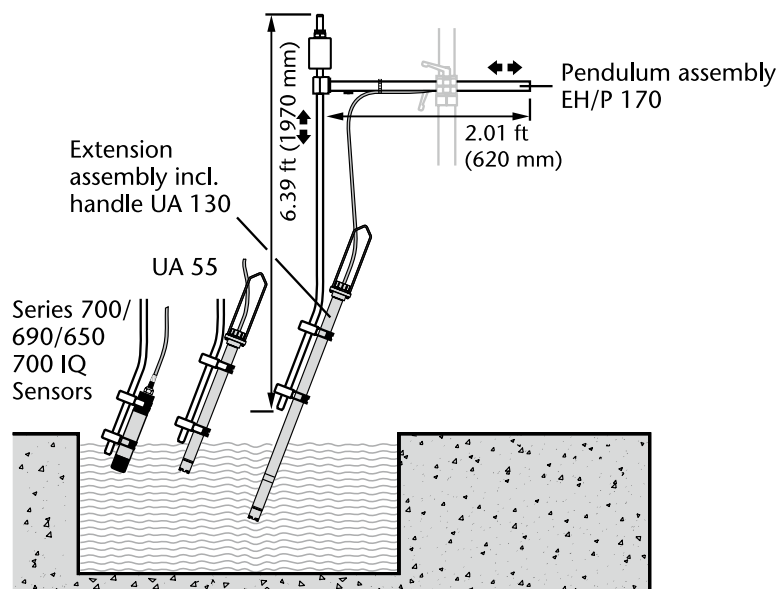


The WTW mounting hardware constitutes a flexible mechanical system in which the individual components are optimally matched. With the selection and combination of various sensor holders, mounting stands and fastening elements, tailor made solutions can be established for the appropriate configuration of the measuring stations; as the diagrams show.

Measurements in Open Channels

Recommended sensor holding device:

Pendulum assembly

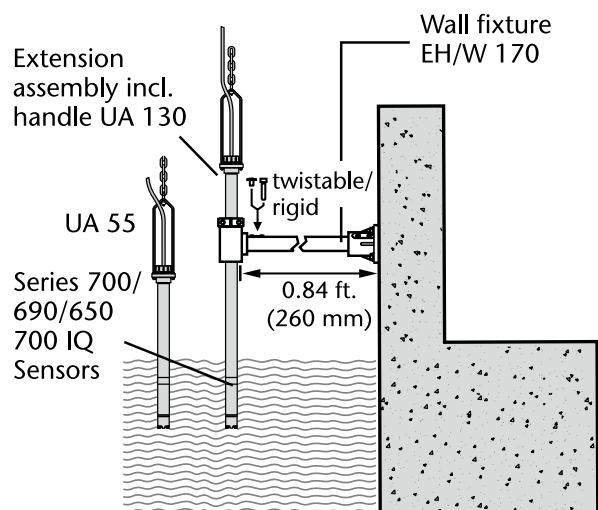


Pendulum rod shown 90° rotated

Measurements in Basins or in Open Channels

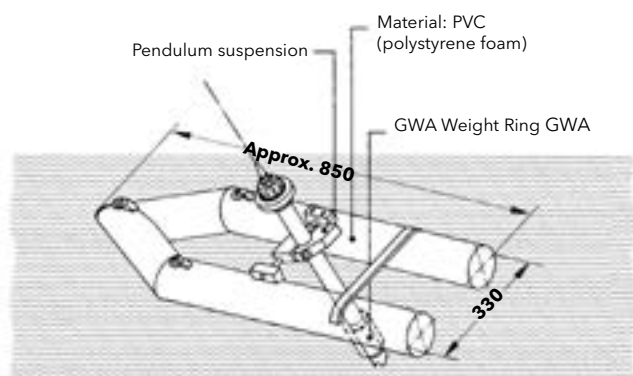
Wall mounting

for universal extension assemblies UA 55/ UA 130



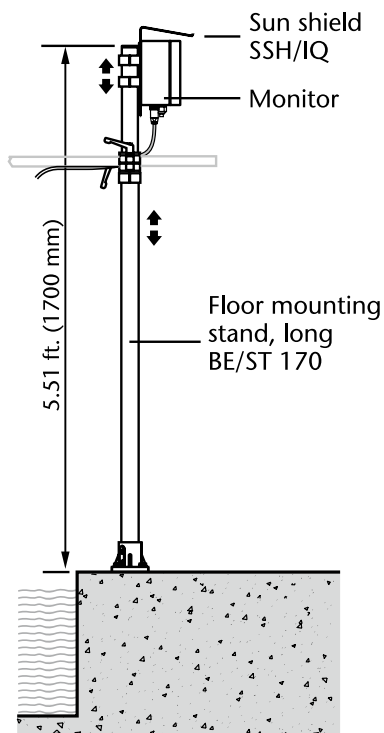
Measurements in very variable water levels or in rivers, lakes, etc.

Sensor Float S 200

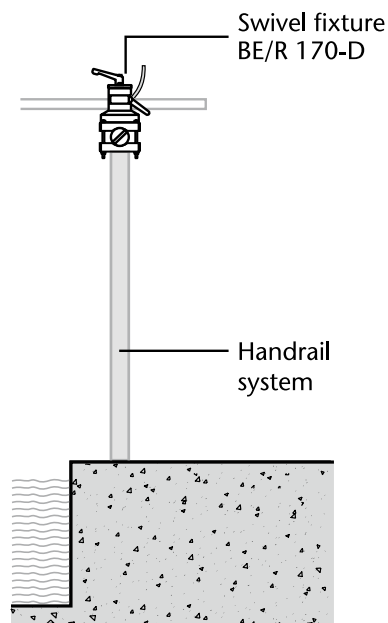


Mounting Stands and Fixtures

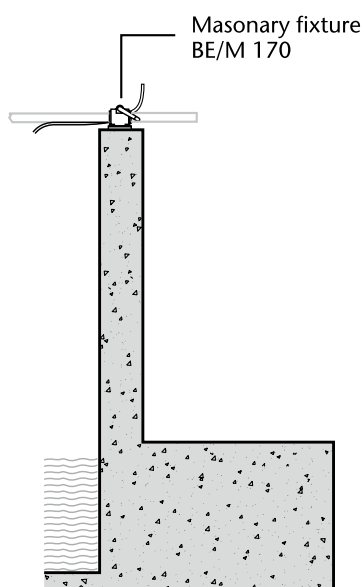
Floor Mounting Stand



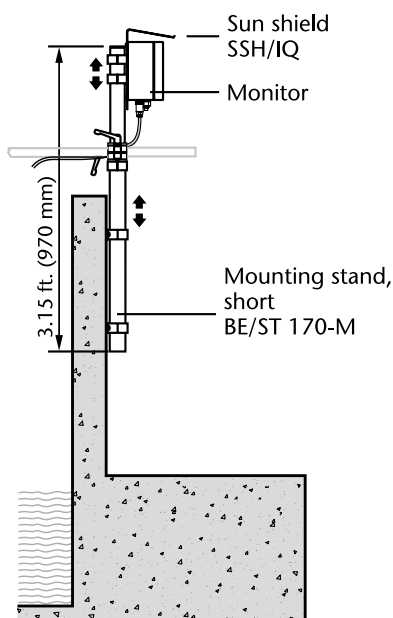
Handrail Mounting (swivel-mounted)



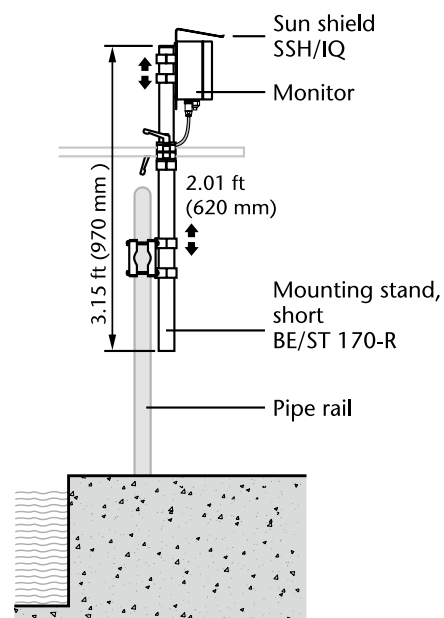
Top-of-Wall Mounting



Wall Mounting



Pipe Mounting



Sensor Holding Devices

EH/F 170

Order No.: 109 272, 109 273

The SensoClean swing mounting assembly consists of a 4.86 ft. or 8.11 ft. (1.5 or 2.5 m) long boom and a 13 ft. (4 m) long plastic chain for height adjustment of the sensor. It may also hold sensor extension assemblies. Particularly in turbulent flows, the freely swinging suspension produces a self-cleaning effect of the sensor, making the swing mounting especially suitable for operation in basins; e.g. in the aeration tank of a wastewater treatment plant.

Boom length	4.86 ft. or 8.11 ft. (1.5 or 2.5 m)
Material	Stainless steel 1.4301
Chain material	Polyethylene

EH/P 170

Order No.: 109 270

The SensoClean pendulum mounting assembly consists of a boom with a pendulum head and an angled pendulum rod. It is fitted at the top end with a movable counterweight for fine adjustment. The sensor or the extension assembly is fastened to the pendulum rod by two pipe clamps.

Boom	Length 2.01 ft. (620 mm), stainless steel 1.4301
Pendulum rod	Length 6.39 ft. (1970 mm), stainless steel 1.4301
Pendulum head, clamp	POM/Polyethylene

EH/W 170

Order No.: 109 274

The EH/W 170 mounting assembly is designed for direct fastening to a wall of a basin. It can be set for pendulous or rigid operation, and it is suitable for extension assemblies. The immersion depth is adjusted by means of a fixing ring. Includes mounting plate with appropriate wall anchors and screws.

Boom	Length 0.84 ft. (260 mm), stainless steel 1.4301
Pendulum head	POM
Mounting plate	Diecast aluminum

S 200

Order No.: 108 540

The float with pendulum mounting assembly is available for use in flowing water or where the water level fluctuates considerably. The fixture is designed for extension assembly UA 55. A GWA weight ring is also required.

Dimensions	2.76 x 1.07 ft. (850 x 330 mm) (L x W)
Material	PVC

VIS Set-F

Order No.: 481 080

Supplemental kit for horizontal mounting of a UV(-VIS) sensor (NitraVis, CarboVis, NiCaVis). Particularly suitable for heavily fluctuating water levels in combination with the S 200 sensor float.

Material	PVC/POM
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Vario Mounting Stand

BE/ST 170

Order No.: 109 280

Robust floor mounted stand made of stainless steel, with joint-locking fixture to accommodate a swing or pendulum mounting assembly and 2 pipe brackets for attaching a sun shield. With diecast aluminum baseplate, wall plugs and screws.

Stand	Length 5.51 ft. (1700 mm), diameter 1.97 in. (50 mm)
Material	Stainless steel 1.4301
Brackets	Polypropylene

BE/ST 170-M

Order No.: 109 283

Mounting stand similar to model BE/ST 170, but shorter version for wall mounting. Wall mounting material is included instead of the baseplate.

Stand	Length 3.15 ft. (970 mm), diameter 1.97 in. (50 mm)
Material	Stainless steel 1.4301

BE/ST 170-R

Order No.: 109 281

This stand is similar to model BE/ST 170, but with hardware for fastening of the stand to a vertical or horizontal pipe rail.

Stand	Length 3.15 ft. (970 mm), diameter 1.97 in. (50 mm)
Material	Stainless steel 1.4301

Model	Description	Order No.	
Mounting Accessories 60 mm sensors (Spectral ; Sludge Level)			
S 200	Float with pendulum mounting assembly for on-line sensors with 40 mm (1.57 in) shaft diameter with UA 55 extension assembly or for spectral sensors with supplement kit VIS Set/EH for horizontal mounting.	108540	OB
EH/F 170-1,5	SensoClean swing mounting assembly for installation of on-line sensors with 40 mm shaft diameter and UA armatures. Supplied with plastic chain (4 m/13 ft) for use in wastewater and 1.5 m/4.9 ft boom (stainless steel 1.4301)	109272	OB
EH/SW	Single electrode holder in seawater design for direct mounting of series 650/690/70X and 70X IQ (SW) sensors	109317	OE
EH/U 170	Sensor holder for direct mounting of series 650/690/70X and 70X IQ sensors to a swing mounting assembly	109320	OE
EH/W 171	Pivot wall mount with 42 cm side arm for IQ sensors to pipes with 30 mm (1.18 in) diameter (EH/WT-D30, EH/WB please order separately)	109360	OB
EH/W 172	Fixed wall mount for IQ sensors to pipes with 30 mm (1.18 in) diameter (EH/WT-D30, EH/WB please order separately)	109361	OB
EH/WB	Sensor holder for sensor with 60 mm (2.36 in) diameter for attachment to pipes with 30 mm (1.18 in) diameter	109362	OB
EH/WT-D30	Pipe D30 x 2600 mm. Adaptable to EH/W 171, EH/W 172, IFL-RM, IFL-D	109363	OB
EH/W 173	Fixed wall mount with side arm for IQ sensors to pipes with 30 mm (1.18 in) diameter in combination with deflector armature IFL-E or sensor holder EH/WB (EH/WT-D30, IFL-E or EH/WB please order separately)	109365	OB
EH/W RM	Rail connection for wall mount EH/W 170 to EH/W 173	109366	OB
EH/WB-40	Sensor holder for sensor with 60 mm (2.36 in) diameter for attachment to pipes with 40 mm (1.57 in) diameter	109367	OB
VIS FT-1	Flow-through measuring cell for spectral UV and UV-VIS sensors, for operation with automatic compressed air cleaning	480080	OH
VIS FT-1/RS	Spare part set for flow-thru measuring cell VIS FT-1	480081	OH
VIS Set/EH	Supplement kit I for spectral sensors for horizontal mounting of a UV/VIS sensor, with the EH/F 170 swing mounting assembly for use in basins or open channels.	481073	OH
VIS Set-F	Supplement kit for horizontal mounting of a UV-VIS/UV sensor. For use in variable water levels with the S 200 float.	481080	OH
IFL-E	Deflector armature for IFL 700 IQ and IFL 701 IQ for application with surface skimmers	481206	OB
IFL-RM	Rail mount for interface level sensors IFL 700 IQ and IFL 701 IQ in combination with deflector armature IFL-E. (EH/WT-D30, IFL-E please order separately)	481207	OB

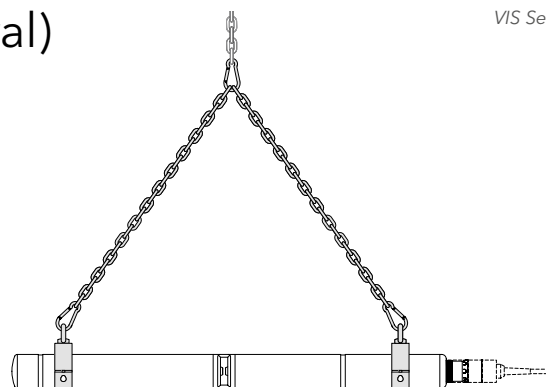
Holder for 60 mm Sensors (Spectral)

VIS Set/EH

VIS Set/EH (shaded parts)

Order No. 481 073

Supplement kit I for horizontal mounting of UV(-VIS) sensors (NitraVis, CarboVis, NiCaVis, NiCaVis NI) with the EH/F 170 swing mounting assembly for use in basins or open channels.



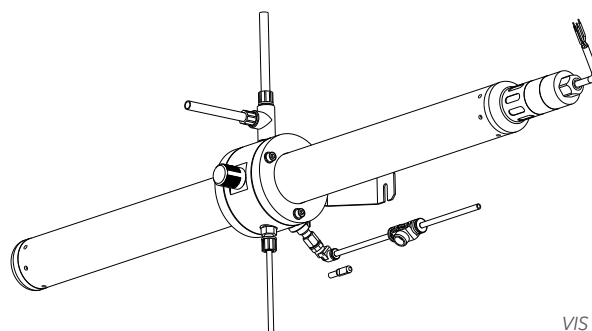
Flow-thru Vessels for 60 mm Sensors (Spectral)

UV-VIS sensors in flow-thru measurement

VIS FT-1

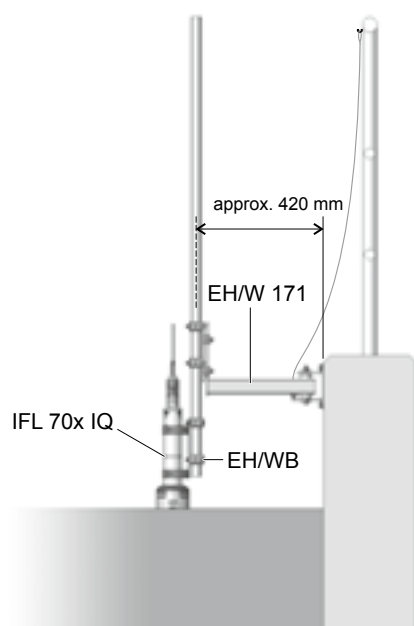
Order No. 480 080

Flow-thru cell for UV/VIS sensors NitraVis/CarboVis (TS), NiCaVis 700 IQ and NiCaVis NI. The sensor can be cleaned automatically in mounted state by means of compressed air.



VIS FT-1

Mounting Systems for 60 mm Sensors (Spectral, UV 700 IQ SAC/NOx, Sludge Level)

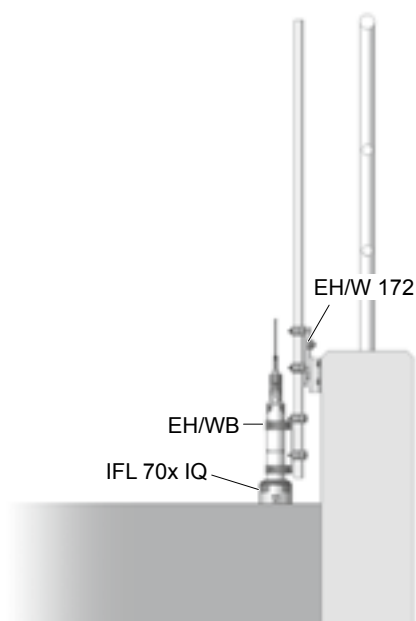


Swing wall mount

EH/W171 Order No. 109 360

with side arm, usable in combination with

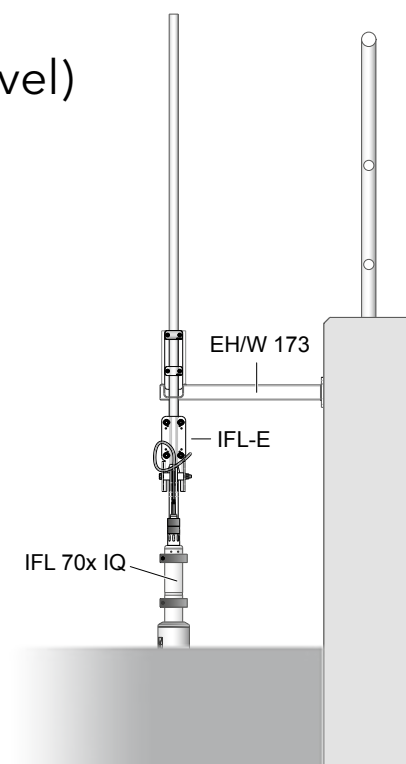
EH/WB (Order No. 109 362)



Wall mount

EH/W 172 Order No. 109 361

usable in combination with EH/WB (Order No. 109 362)



Fixed wall mount

EH/W173 Order No. 109 365

with side arm, usable in combination with

IFL-E (Order No. 481 206) oder EH/WB (Order No. 109 362)

Model	Description	Order No.	
Flow-through Armatures			
EBS 700-DU/N	Mounting set for measurements in pipelines, for all sensors of the 650/690/700(IQ)/701(IQ) series. Consisting of a bonded sleeve for standard 45° PVC T-piece (d 63 DN 50), O-ring seals and union nut. Please order suitable sensor adapter (ADA-XX) separately.	203751	OH
EBST 700-DU/N	Flow-through adapter for measurements in pipelines, for all sensors of the 650/690/700(IQ)/701(IQ) series. Consisting of a 45° PVC T-piece (d 63 DN 50) with bonded sleeve. O-ring seals and union nut. Please order suitable sensor fadapter (ADA-XX) separately.	203753	OH
EBST 700-DU/ND	Flow-thru adapter for measurements in pipelines with air pressure cleaning connection for use with sensors 70X, 70X IQ (pre-pressure max. 0.5 m water column) consisting of a PVC 45° T piece (d763 DN 50) with bonded sleeve, O-ring seals and union nut, 2 x 180° shifted pressure cleaning injector with centric air-pressure connector 4/6 mm (max 6 bar). Please order suitable sensor adapter (ADA-XX) separately.	203754	OH
ESS 700 VA/N	Stainless steel (1.4571) weld-in socket, for measurements in pipelines, for use with all sensors of 650/690/700(IQ)/701(IQ) series. Please order suitable sensor adapter (ADA-XX) separately.	203755	OH
ESS 700 VA/10	Stainless steel weld-in socket, for measurements in pipelines with up to 10 bar pressure, useable for all series 650/690/700(IQ)/701(IQ) sensors. Please order suitable sensor adapter (ADA-XX) separately.	203757	OH
ADA-DF 1	Adapter for mounting IQ sensors for measuring of pH/ORP, conductivity and D.O. in D 700/N or DMS/N flow-through vessels	203761	OH
Flow-through Vessels			
D 530	Flow-through vessel for pH combination electrodes (shaft diameter 12 mm/0.47 in), temperature sensor TFK 150 and TFK 530 and for conductivity cells LTA 01 and LR 325/01.	108060	LC
D 300/pH	Flow-thru vessel for pH/ORP and temperature measuring	108073	OB
D 700/N	Flow-thru vessel for multiparameter measurements, for use with: TriOxmatic® 690/700(IQ)/701(IQ), SensoLyt® SE/DW/EC/Pt, TetraCon® 325 and TFK 325. Please order suitable sensor flange separately	203745	OH
D 702/N	Flow-thru cell for continuous oxygen measurement, primarily for measurements in the ppb range with TriOxmatic® 702 (IQ). Also useable for TriOxmatic® 690/700/700 IN/701 (IQ). Please order suitable sensor flange separately	203747	OH
DMS/N	Universal flow-thru vessel for multiparameter measurements with up to four sensors, e.g. for use in the discharge of a waste water treatment plant. Please order suitable sensor flange separately. Closures or connections must be made on site.	203749	OH

Flow-thru Adapters

EBST 700-DU/N and EBST 700-DU/ND

Order No.: 203 753

Order No.: 203 754

Flow-thru adapter for measurements in pipelines, consisting of a 45° PVC T-piece (d 63 DN 50) with bonded sleeve, O-ring seals and union nut. The adapter must be completed by the selection of a suitable sensor flange from the table on page 114 and can then be used for measurement of pH, oxygen, temperature and conductivity with all current WTW sensors.

EBST 700-DU/ND additionally features a compressed-air connection for cleaning installed sensors. Selection of sensors acc. table on page 114.

Max. pressure	3 bar (EBST 700-DU/N) or 0.2 bar (EBST 700-DU/ND)
Max. temperature	122 °F (50 °C)
Material	PVC/POM

EBS 700-DU/N

Order No.: 203 751

Mounting set for flow-thru measurements, consisting of a bonded sleeve for standard 45° PVC T-pieces (d 63 DN 50) or other suitable pipeline systems, one R 2" union nut and the necessary O-ring seals. Please select an adapter from the table on page 114.

Max. pressure	3 bar
Max. temperature	122 °F (50 °C)
Material	PVC/POM

ESS 700 VA/N

Order No.: 203 755

Stainless steel weld-in socket, for measurements in pipe-lines. Please select an adapter from the table "Flow-thru Adapters".

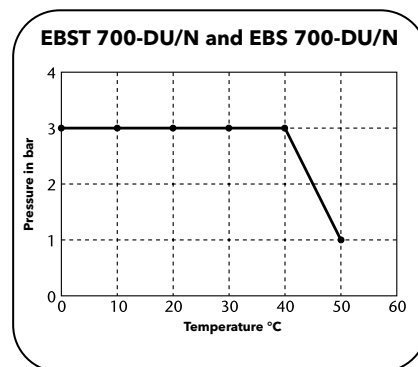
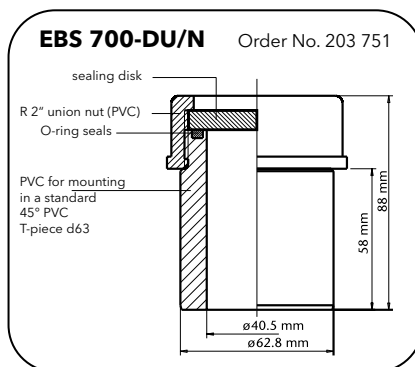
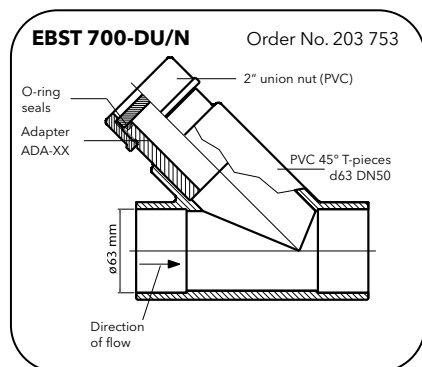
Max. pressure	3 bar
Max. temperature	122 °F (50 °C)
Material	
Weld-in socket	V4A stainless steel 1.4571
Union nut	PVC-U
Total length	5.59 in. (142 mm)
Outside diameter	2.36 in. (60 mm)

ESS 700 VA/10

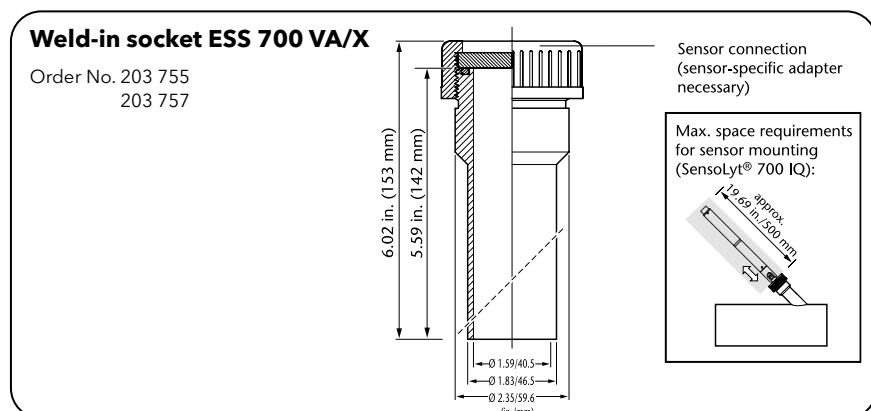
Order No.: 203 757

Stainless steel weld-in socket, for measurements in pipe-lines. Please select an adapter from the table "Flow-thru Adapters".

Max. pressure	10 bar
Max. temperature	140 °F (60 °C)
Material	
Weld-in socket	V4A stainless steel 1.4571
Union nut	V4A stainless steel 1.4571
Total length	5.59 in. (142 mm)
Outside diameter	2.36 in. (60 mm)



Configuration of the adapter according to table "Flow-thru Adapters".

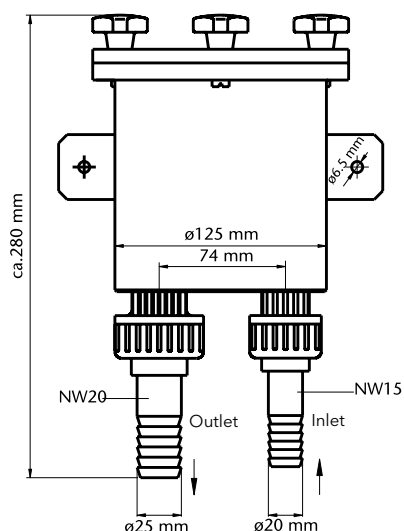


ESS 700 VA/10

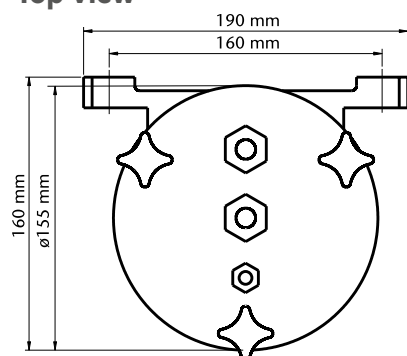
pH/ORP/Conductivity Measurement

D 300/pH

Side View



Top View



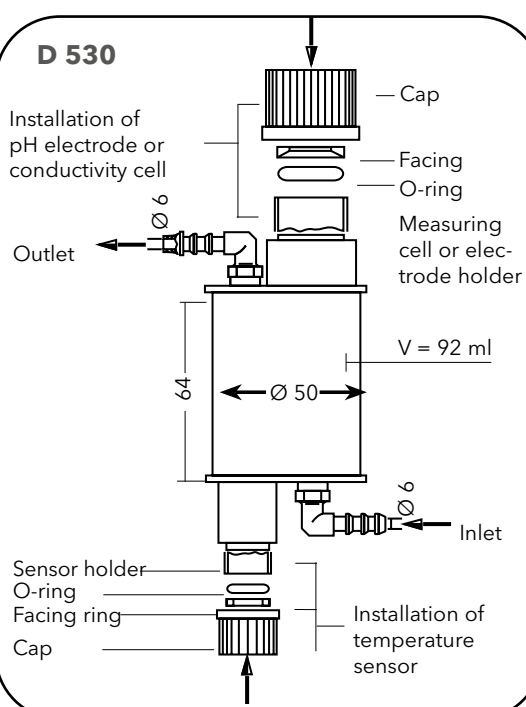
D 300/pH

Order No. 108 073

Flow-thru vessel for unpressurized applications with pH/ORP electrodes of type SensoLyt® SE/DW/EC/Pt (2 x M20 x 1.5; clamping range 0.28-0.51 in./7-13 mm) and one TFK-150/325 Temperature sensor (1 x M12 x 1.5; clamping range 0.12-0.28 in./3-7 mm).

Vessel volume:	Approx. 1200 ml
Min. flow rate:	Approx. 1 l/min.
Max. pressure:	< 15psi (< 1 bar)
Inlet/Outlet:	Hose connection with nominal width of 0.59 and 0.98 in. (15 and 24.9 mm), resp.
Material:	PVC
Dimensions:	Approx. 11.02 x 7.48 in. (280 x 190 mm, H x W)

D 530



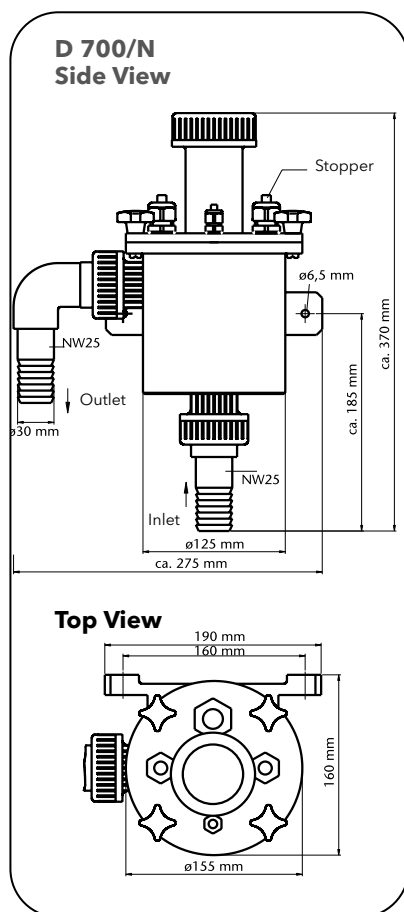
D 530

Order No. 108 060

Transparent flow-thru vessel for installation of pH electrodes or conductivity cells with 0.47 or 0.51 in. (12 or 13 mm) diameter, and temperature sensors with 0.24 in. (6 mm) diameter.

Vessel volume:	Approx. 95 ml
Min. flow rate:	Approx. 20 - 50 ml/min.
Max. pressure:	< 15 psi (< 1 bar)
Inlet/Outlet:	Hose connection dia. 0.24 in. (6 mm)
Material:	PVC, transparent
Dimensions:	3.11 x 1.97 in. (79 x 50 mm, H x W, without connectors)

Multi-parameter Measurement



D 700/N

Order No. 203 745

PVC flow-thru vessel for unpressurized measurements with various sensors. The D 700/N can accommodate up to the following number of sensors: 1 D.O. sensor TriOxmatic® 690/700/701/CellOx® 700 (IQ) (central bore; dia. 40,5 mm), pH/ORP electrodes type SensoLyt® SE/DW/EC/Pt (M20 x 1.5; clamping range 7-13 mm), 1 conductivity cell e.g. TetraCon® 325 (M25 x 1.5; clamping range 9-13 mm), 1 temperature sensor e.g. TFK 325 (M12 x 1.5; clamping range 3-7 mm). Instead of the TriOxmatic® sensor a conductivity sensor type TetraCon® 700 (IQ) can also be mounted.

Configuration of the adapter according to table: flow-thru adapters

Vessel volume:	Approx. 1100 ml
Min. flow rate:	2 - 7 l/min. (depending on sensor)
Max. flow rate:	30 l/min.
Max. pressure:	< 15 psi (< 1 bar)
Inlet/Outlet:	Hose connection; nominal dia. 1.18 in. (30 mm)
Material:	PVC
Dimensions:	14.57 x 10.83 x 6.30 in. (370 x 275 x 160 mm, H x W x D, incl. connectors)

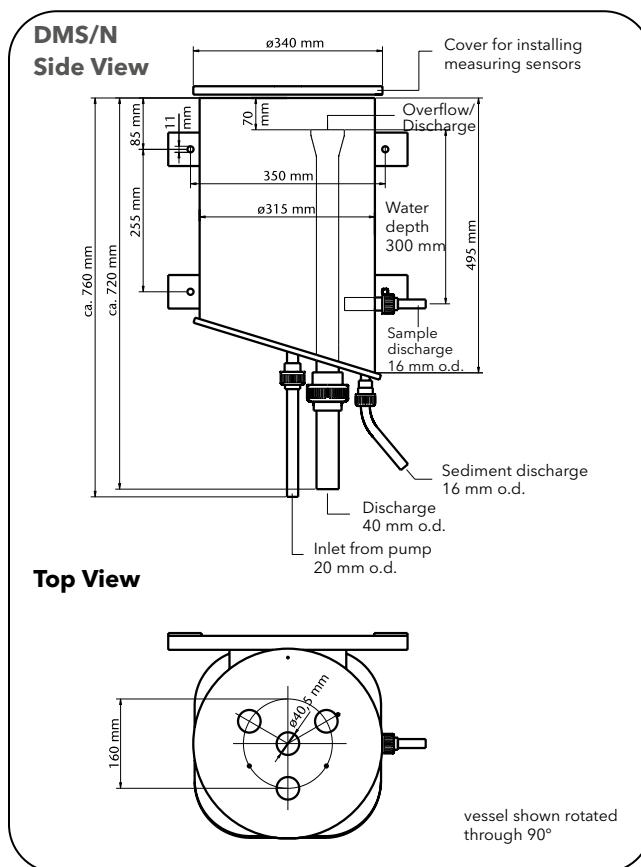
DMS/N

Order No. 203 749

The DMS/N flow-thru vessel was designed specifically for use in monitoring stations. Up to 4 sensors, each with a diameter of 40 mm, can be mounted in the lid of the vessel for measurement of oxygen, pH/ORP, conductivity and/or turbidity. The sample flow is continuously supplied to the vessel by a small submersible pump (not included), and exits through an overflow. If in addition analyzers are installed in the station, they can be supplied with samples from the flow-thru vessel.

Vessel volume:	Approx. 27 l
Min. flow rate:	150 - 200 l/hr
Max. flow rate:	Approx. 1500 l/hr
Max. pressure:	< 15 psi (< 1 bar)
Inlet/outlet:	Hose connection Ø 0.79 resp. 1.57 in. (20 mm resp. 40 mm)
Material:	PVC
Dimensions:	Approx. 19.49 x 15.39 in. (495 x 340 mm, H x W, without connectors)

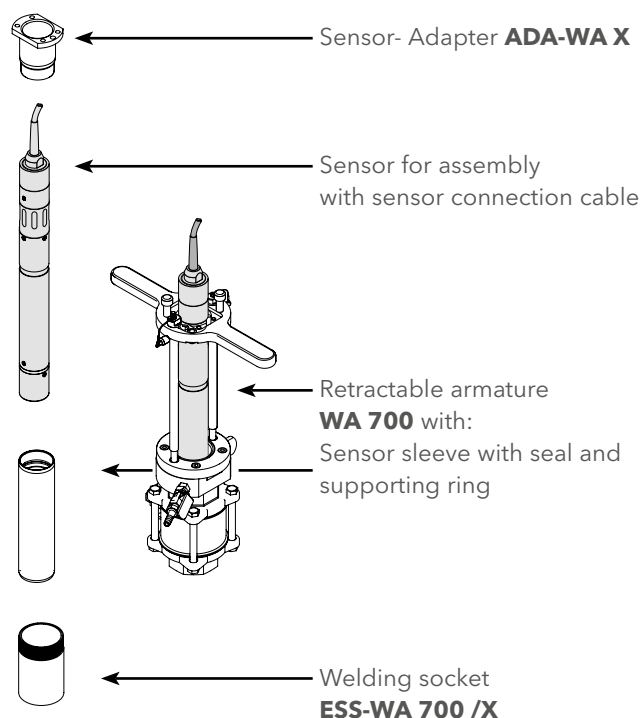
Configuration of the adapter according to table: flow-thru adapters



Model	Description	Order No.	
Flow-through Adapters			
ADA-DF 4	Adapter for mounting D.O. sensors TriOxmatic® 702 and TriOxmatic® 702 IQ in D 702/N flow-thru vessel	203767	0H
ADA-DF 6	Adapter for mounting D.O. sensor TriOxmatic® 702 IQ in flow-thru vessel D 702/N	203771	0H
ADA-DF 7	Adapter for mounting turbidity sensor VisoTurb® 700 IQ in DMS/N flow-through vessel	203773	0H
ADA-DF 9	Adapter for mounting IQ sensors for pH/ORP, D.O., conductivity, turbidity and suspended solids in flow-through vessels EBS(T)700-DU/N or ESS 700-VA/N	203777	0H
ADA-DF 10	Adapter for mounting of pH/ORP armature SensoLyt® 690/700 in flow-thru vessels EBS(T)700-DU/N or ESS 700-VA/N	203779	0H
ADA-DF 11	Adapter for mounting IQ sensors for pH/ORP, D.O., conductivity, turbidity and suspended solids in ESS 700 VA/10 weld-in socket	203781	0B
ADA-DF 12	New Adapter for mounting sensors TriOxmatic® 690/ 70X, CellOx® 700 and TetraCon® 700 in ESS 700 VA/10 weld-in socket	203783	0X
ADA-DF 14	Adapter for mounting IQ sensor FDO®700 IQ in flow-thru vessel D 700/N	203787	0H
ADA-DF 15	Adapter for mounting IQ sensor FDO®700 IQ in flow-thru vessels EBS 700-DU/N, EBST 700-DU/N and ESS 700 VA/N	203789	0H

Flow-thru Adapters											
		Flow-thru Vessels									
		D 700/N Flow-thru vessel Order No. 203 745	D 702/N Flow-thru vessel Order No. 203 747	DMS/N Flow-thru vessel Order No. 203 749	EBS 700-DU/N Flow-thru adapter Order No. 203 751	EBST 700-DU/N Flow-thru adapter Order No. 203 753	EBST 700-DU/ND Flow-thru adapter Order No. 203 754	ESS 700 VA/N Welding socket Order No. 203 755	ESS 700 VA/10 * Welding socket Order No. 203 757	WA 700/2 Retractable armature Order No. 480 102	WA 700/10 * Retractable armature Order No. 480 100
Sensor to be built in	TriOxmatic® 690/700/ 700 IN/ 701/702 **								ADA-DF12 203 783	ESS-WA 700/X 480 10X ADA-WA2 480 110	ESS-WA 700/X 480 10X ADA-WA2 480 110
	TetraCon® 700								ADA-DF12 203 783	ESS-WA 700/X 480 10X ADA-WA2 480 110	ESS-WA 700/X 480 10X ADA-WA2 480 110
	SensoLyt® 650/690/700			ADA-DF10 203 779	ADA-DF10 203 779	ADA-DF10 203 779	ADA-DF10 203 779	ADA-DF10 203 779		ESS-WA 700/X 480 10X ADA-WA3 480 112	ESS-WA 700/X 480 10X ADA-WA3* 480 112
	VisoTurb® 700 IQ			ADA-DF7 203 773	ADA-DF9 203 777	ADA-DF9 203 777	ADA-DF9 203 777	ADA-DF9 203 777	ADA-DF11 203 781	ESS-WA 700/X 480 10X ADA-WA1 480 108	ESS-WA 700/X 480 10X ADA-WA1 480 108
	ViSolid® 700 IQ			ADA-DF7 203 773	ADA-DF9 203 777	ADA-DF9 203 777	ADA-DF9 203 777	ADA-DF9 203 777	ADA-DF11 203 781	ESS-WA 700/X 480 10X ADA-WA1 480 108	ESS-WA 700/X 480 10X ADA-WA1 480 108
	TetraCon® 700 IQ	ADA-DF1 203 761		ADA-DF1 203 761	ADA-DF9 203 777	ADA-DF9 203 777	ADA-DF9 203 777	ADA-DF9 203 777	ADA-DF11 203 781	ESS-WA 700/X 480 10X ADA-WA1 480 108	ESS-WA 700/X 480 10X ADA-WA1 480 108
	SensoLyt® 700 IQ	ADA-DF1 203 761		ADA-DF1 203 761	ADA-DF9 203 777	ADA-DF9 203 777	ADA-DF9 203 777	ADA-DF9 203 777	ADA-DF11* 203 781	ESS-WA 700/X 480 10X ADA-WA1 480 108	ESS-WA 700/X 480 10X ADA-WA1* 480 108
	TriOxmatic® 700 IQ/701 IQ	ADA-DF1 203 761	ADA-DF4 203 767 and ADA-DF6 203 771	ADA-DF1 203 761	ADA-DF9 203 777	ADA-DF9 203 777	ADA-DF9 203 777	ADA-DF9 203 777	ADA-DF11 203 781	ESS-WA 700/X 480 10X ADA-WA1 480 108	ESS-WA 700/X 480 10X ADA-WA1 480 108
	TriOxmatic® 702 IQ		ADA-DF4 203 767 and ADA-DF6 203 771		ADA-DF9 203 777	ADA-DF9 203 777	ADA-DF9 203 777	ADA-DF9 203 777	ADA-DF11 203 781	ESS-WA 700/X 480 10X ADA-WA1 480 108	ESS-WA 700/X 480 10X ADA-WA1 480 108
	FDO 700 IQ/701 IQ	ADA-DF14 203 787		ADA-DF1 203 761	ADA-DF15 203 789	ADA-DF15 203 789	ADA-DF15 203 789	ADA-DF15 203 789	ADA-DF11 203 781	ESS-WA 700/X 480 10X ADA-WA4 480 114	ESS-WA 700/X 480 10X ADA-WA4 480 114
	AmmoLyt® Plus 700 IQ	ADA-DF1 203 761		ADA-DF1 203 761	ADA-DF9 203 777	ADA-DF9 203 777	ADA-DF9 203 777	ADA-DF9 203 777			
	NitraLyt® Plus 700 IQ	if < 0.2 bar is met		if < 0.2 bar is met	if < 0.2 bar is met	if < 0.2 bar is met	if < 0.2 bar is met	if < 0.2 bar is met			
VARiON® Plus 700 IQ											
ADA-DFX		Configuration recommended									
		Configuration possible (check sensor specs and application)									
		Configuration not intended									
		* with electrode SensoLyt® SEA-HP									
		** only for flow-thru vessel D 702/N									

Retractable Armatures



Technical Data Retractable Armatures

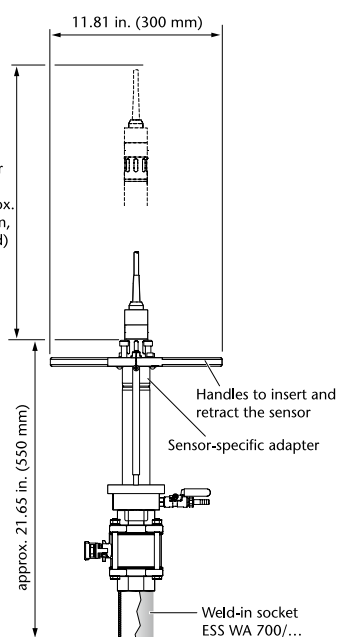
	WA 700/2	WA 700/10
Max. Pressure	2 bar (overpressure)	10 bar (overpressure)
Max. Temperatur	140 °F (60 °C)	
Material	Wetted parts: Stainless steel (1.4571 or 1.4408) O-rings: FPM (Viton) Seals ball valve: PTFE (Teflon)	
Total Length	21.26 in. (540 mm)	
Outer Diameter	Incl. mounting aid: 11.81/12.60 in. (300/320 mm)	

Model	Description	Order No.	
Retractable Armatures			
WA 700/10	Retractable armature for measurements in pipelines, with up to 10 bar overpressure, for use with all series 650/ 690/700(IQ)/701(IQ) sensors. Consisting of a pre-assembled armature with ball valve, mounting aid up to 10 bar, rinsing connectors and a sensor sleeve with sealings and retainer rings. Please order suitable sensor adapter separately.	480100	OH
WA 700/2	Retractable armature for measurements in pipelines, with up to 2 bar overpressure, for use with all series 650/ 690/700(IQ)/701(IQ) sensors. Consisting of a pre-assembled armature with ball valve, mounting aid up to 2 bar, rinsing connectors and a sensor sleeve with sealings and retainer rings. Please order suitable sensor adapter separately.	480102	OH
ESS-WA 700/ST	Steel (St 33) weld-in socket for WA 700/2 und WA 700/10 retractable armatures	480104	OX
ESS-WA 700/VA	Stainless steel (1.4571) weld-in socket for WA 700/2 und WA 700/10 retractable armatures	480106	OH
ADA-WA 1	Adapter for mounting of IQ sensors for pH/ORP, conductivity, D.O., turbidity and TSS into WA 700/2 and WA 700/10 retractable armatures	480108	OX
ADA-WA 2	New Adapter for mounting of IQ sensors TriOxmatic® 690/70X and TetraCon® 700 into WA 700/2 and WA 700/10 retractable armatures	480110	OX
ADA-WA 3	Adapter for mounting of pH/ORP armature SensoLyt® 650/690/700 into WA 700/2 and WA 700/10 retractable armatures	480112	OX
ADA-WA 4	Adapter for mounting of IQ sensor FDO®700 IQ into WA 700/2 and WA 700/10 retractable armatures	480114	OX
WA/BV	Blind plug for weld-in socket fittings ESS-WA 700/ST and ESS-WA 700/VA	480116	OX
WA/Epac	Spare set of O-ring seals for retractable armatures WA 700/2 and WA 700/10	480118	OX

Dimensions WA 700/2

Order No. 480 102

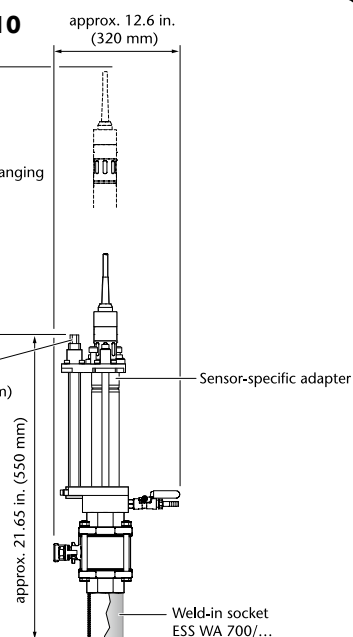
Required space for
exchanging the
sensor max. approx.
19.69 in. (500 mm,
sensor-dependent)

**Dimensions WA 700/10**

Order No. 480 100

Required space for exchanging
the sensor max. approx.
19.69 in. (500 mm,
sensor-dependent)

Spindle drive to insert and
retract the sensor
(wrench size 0.51 in./13 mm)



Model	Description	Order No.	
Cleaning System			
DIQ/CHV	Dual IQ/Cleaning Head Valve for automatic air cleaning controlled by a relay, for system 281/282/284, (relay and compressed air supply external)	472007	OH
Cleaning Air Box - 115 VAC	Air pressure compressor for online sensors. For easy wall mounting, switchable by a relay to provide cleaning systems with air pressure. 115 VAC. No additional CHV PLUS needed.	480017	OH
MIQ/CHV PLUS	Module IQ/Cleaning Head Valve, for automatic air cleaning controlled by a relay or the IQ SENSOR NET (relay and compressed air supply external)	480018	OH
Cleaning Air Box - 230 VAC	Air pressure compressor for online sensors. For easy wall mounting, switchable by a relay to provide cleaning systems with air pressure. 230 VAC. No additional CHV PLUS needed.	480019	OH
AF/Cleaning Air Box	Air intake filter for Cleaning Air Box. For the removal of particles to maintain the compressor.	480026	OF
RM/Cleaning Air Box	Replacement membrane for compressor in Cleaning Air Box. The membrane should be replaced after 5000 h of operation time or after 5 years.	480027	OH
CH	Cleaning head for on-line sensors with 40 mm diameter. Supplied with 15 m (49 ft) compressed air tube.	900107	OH
CH/Epac	Spare part set for cleaning head	900111	OX

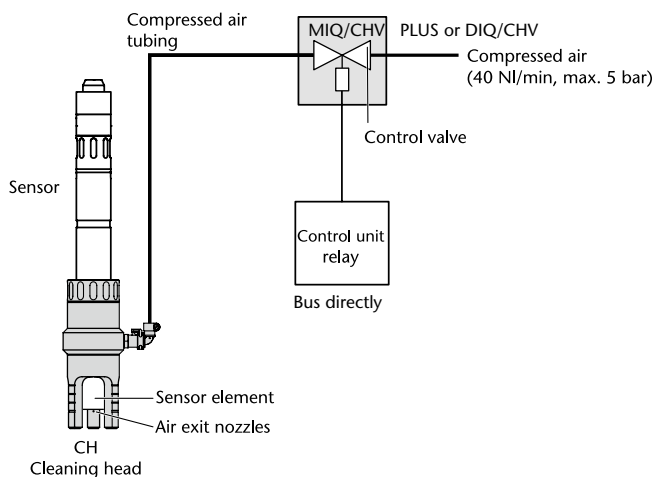
Cleaning System

For a continuous compressed-air cleaning system there are two options:

Option 1:

Compressed-air supply is provided at the plant. You require the following components

- Cleaning head CH
- Valve module (MIQ/CHV PLUS or DIQ/CHV)



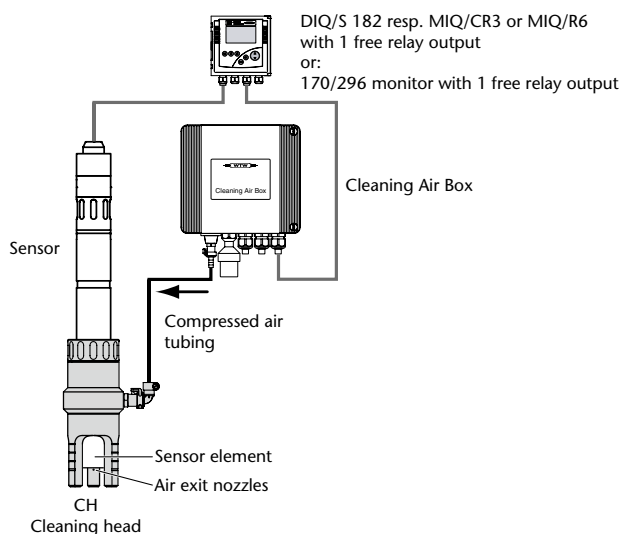
Efficient compressed air cleaning put into practice:



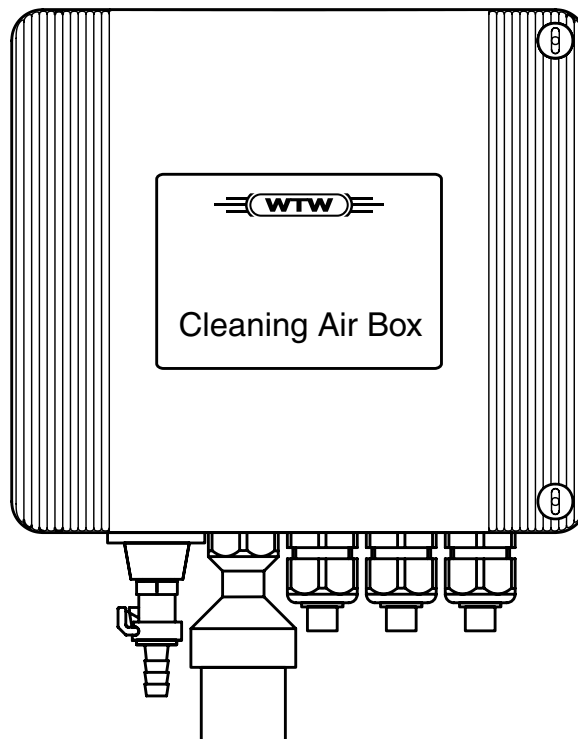
Option 2:

Compressed-air supply is not provided at the plant. You require the following components

- Cleaning head CH
- Cleaning Air Box
- Monitor with relay output



Cleaning Air Box



Additional Products

Model	Description	Order No.	
Accessories and Replacement parts TresCon® Ammonia			
ZBK/NH500/TC	Accessory kit for on-line ammoni sensor NH 500/TC for TresCon® and TresCon® Uno included: 3 membrane caps and 50 ml electrolyte	180102	OF
BEH/ T 1,5	1.5 l wide-necked bottle (with screw cap and labels).	821017	OF
BEH/ T 10	10 l container (with screw cap and labels).	821019	OF
BSet/A111	Container set for ammonium module OA 110, TresCon® A111 and TresCon® Uno TCU/A111.	821055	OF
R/ A111	Pack of 390 g Na2-EDTA powder (for 10 l) and 400 g NaOH concentrate (pellets), for ammonium, nitrate, nitrite and orthophosphate TresCon® module.	821075	OF
S/ AI - A111	Standard solution A-I (1 mg/l NH4-N), 1.5 l.	821100	OF
S/ AII - A111	Standard solution A-II (5 mg/l NH4-N), 1.5 l.	821101	OF
S/ BI - A111	Standard solution B-I (10 mg/l NH4-N), 1.5 l.	821102	OF
S/ BII - A111	Standard solution B-II (50 mg/l NH4-N), 1.5 l.	821103	OF
RSet/A111-1	Reagent set for ammonium analyzer module OA 110 resp. TresCon® A111 and TresCon® Uno TCU/A111, 120 days operation: standards (1 mg/l, 10 mg/l)/ reagents/cleaning agents.	821138	OF
RSet/ A111-2	Reagent set for ammonium analyzer module OA 110 resp. TresCon® A111 and TresCon® Uno TCU/A111, 120 days operation: standards (5 mg/l, 50 mg/l)/ reagents/cleaning agents.	821140	OF
C/TCM1	1.5 l cleaning solution for nitrate/SAC, nitrite, orthophosphate, total phosphorus for analyzer module TresCon® ON 210 and OS 210, TresCon® ON 510, TresCon® OP 210, TresCon® OP 510, and analyzers TresCon® N211/S211/N511/P211/P511 and TCU/N211/S211/N511/P211. Suitable as reagent solution for ammonium for analyzer module TresCon® OA110 and analyzers TresCon® A111 and TCU/A111	821156	OF
C/ A111	1.5 l cleaning solution for ammonium analyzer module OA 110, TresCon® A111 and TresCon® Uno /A111; 10% citric acid.	821160	OF
Wpack/ A111	Set of maintenance kit (fittings and spare tubes) for TresCon® ammonium analyzer module OA 110, TresCon® A111 and TresCon® Uno/A111.	821197	OF
NH500/TC	Ammonium electrode, incl. 3 exchange membrane heads and 50 ml electrolyte solution for module OA 110.	821210	OF
MC/NH500/TC	Exchange membrane heads for ammonium electrode, included: 3 exchange membrane caps.	821212	OF
ELY/NH	Electrolyte solution for Ammonium electrode, 50 ml.	821220	OF
Accessories and Replacement parts TresCon® Nitrate/SAC			
BEH/ T 1,5	1.5 l wide-necked bottle (with screw cap and labels).	821017	OF
BEH/ T 10	10 l container (with screw cap and labels).	821019	OF
R/ A111	Pack of 390 g Na2-EDTA powder (for 10 l) and 400 g NaOH concentrate (pellets), for ammonium, nitrate, nitrite and orthophosphate TresCon® module.	821075	OF
S/ AI - N 211	Standard solution A-I (zero standard NO3-N), 10 l.	821112	OF
SSet/ N211	Set of standard solution (NO3-N) 4x 1.5 l for nitrate analyzer modules TresCon® ON 210 and OS 210, TresCon® N211/S211, TCU/N211 and S211.	821113	OF
RSet/ N211	Reagent set for nitrate (SAC), for 120 days operation: standard/cleaning agent for TresCon® modules ON/OS 210, TresCon® N/S211, TCU/N211/S211.	821143	OF
C/TCM1	1.5 l cleaning solution for nitrate/SAC, nitrite, orthophosphate, total phosphorus for analyzer module TresCon® ON 210 and OS 210, TresCon® ON 510, TresCon® OP 210, TresCon® OP 510, and analyzers TresCon® N211/S211/N511/P211/P511 and TCU/N211/S211/N511/P211. Suitable as reagent solution for ammonium for analyzer module TresCon® OA110 and analyzers TresCon® A111 and TCU/A111	821156	OF
C/ N211	1.5 l cleaning solution for analyzer module nitrate TresCon® ON 210 and OS 210, TresCon® N211 /S 211 and TCU/ N211 /S 211, 0.4 % salt acid.	821163	OF
C/N211/FE	1.5 l cleaning solution nitrite for ferrous waste water for analyzer module TresCon® ON 210 and OS 210, TresCon® N211/S211 and TCU/N211 u. S211.	821165	OF
Wpack/ N211	Set of maintenance kit (fittings/spare tubes) for TresCon® nitrate and nitrate/SAC analyzer module ON/OS 210, TresCon® N/S 211/TCU Uno/S 211.	821199	OF

Model	Description	Order No.	
Accessories and Replacement parts TresCon® Nitrite			
BEH/ T 1,5	1.5 l wide-necked bottle (with screw cap and labels).	821017	OF
BEH/ T 10	10 l container (with screw cap and labels).	821019	OF
BSet/ N511	Container set for nitrite TresCon® module ON 510, TresCon® N511 and TresCon® Uno N511. Supplied with 2 x 1 l square bottle, incl. screw caps and labels.	821057	OF
R/ A111	Pack of 390 g Na2-EDTA powder (for 10 l) and 400 g NaOH concentrate (pellets), for ammonium, nitrate, nitrite and orthophosphate TresCon® module.	821075	OF
R/ N511	1 l reagent solution for nitrite analyzer module TresCon® ON 510 (resp. TresCon® N511 and TresCon® Uno TCU/N511), 13% phosphoric acid.	821085	OF
S/ B - N511	1.5 l standard solution B (0.4 mg/l NO2-N) for TresCon® module ON 510 (resp. TresCon® N 511 and TresCon® Uno TCU/N511).	821117	OF
C/TCM1	1.5 l cleaning solution for nitrate/SAC, nitrite, orthophosphate, total phosphorus for analyzer module TresCon® ON 210 and OS 210, TresCon® ON 510, TresCon® OP 210, TresCon® OP 510, and analyzers TresCon® N211/S211/N511/P211/P511 and TCU/N211/S211/N511/P211. Suitable as reagent solution for ammonium for analyzer module TresCon® OA110 and analyzers TresCon® A111 and TCU/A111	821156	OF
EL/ TC	Spare lamp for photometer block.	821175	OF
Wpack/ N511	Set of maintenance kit (fittings and spare tubes) for TresCon® nitrite analyzer module, TresCon® N511 and TCU/N511.	821203	OF
Accessories and Replacement parts TresCon® Orthophosphate			
BEH/ T 1,5	1.5 l wide-necked bottle (with screw cap and labels).	821017	OF
BEH/ T 10	10 l container (with screw cap and labels).	821019	OF
BSet/P211	Container set for analyzer module ammonia OA 110 resp. TresCon® A111 and TresCon® Uno TCU/A111.	821058	OF
R/ A111	Pack of 390 g Na2-EDTA powder (for 10 l) and 400 g NaOH concentrate (pellets), for ammonium, nitrate, nitrite and orthophosphate TresCon® module.	821075	OF
R/ P211	10 l reagent solution for orthophosphate TresCon® module OP 210... (TresCon® P211... and TCU/P211...), 12% salt acid.	821091	OF
S/ BI - P211	Standard solution B-I (1.6 mg/l PO4-P) 1.5 l, for orthophosphate TresCon® module OP 210/MB 1 (resp. TresCon® P211 MB 1, TCU/P211 MB 1, OP 511, P 511).	821121	OF
S/ BII - P211	Standard solution B-II (8 mg/l PO4-P), 1.5 l for orthophosphate TresCon® module OP 210/MB 2, TresCon® P211 MB 2 and TCU/P211 MB 2.	821122	OF
S/ BIII - P211	Standard solution B-III (20 mg/l PO4-P), 1.5 l for orthophosphate TresCon® module OP 210/MB 3 TresCon® P211 MB 3 and TCU/P211 MB 3.	821123	OF
C/TCM1	1.5 l cleaning solution for nitrate/SAC, nitrite, orthophosphate, total phosphorus for analyzer module TresCon® ON 210 and OS 210, TresCon® ON 510, TresCon® OP 210, TresCon® OP 510, and analyzers TresCon® N211/S211/N511/P211/P511 and TCU/N211/S211/N511/P211. Suitable as reagent solution for ammonium for analyzer module TresCon® OA110 and analyzers TresCon® A111 and TCU/A111	821156	OF
EL/ TC	Spare lamp for photometer block.	821175	OF
Wpack/ P211	Set of maintenance kit (fittings and spare tubes) for TresCon® phosphate analyzer module OP 210/..., TresCon® P211...and TCU/P211...	821195	OF
Accessories and Replacement parts TresCon® Total Phosphate			
BEH/ T 1,5	1.5 l wide-necked bottle (with screw cap and labels).	821017	OF
BEH/ T 10	10 l container (with screw cap and labels).	821019	OF
BSet/P511	Container set for total phosphor TresCon® module OP 510 (resp. TresCon® P511).	821059	OF
KB/P511	Cooling box for Ptotal reagents for total phosphor TresCon® module.	821068	OX
R/ ADD/ TC	Pack of Na2-EDTA powder (390 g) as reagent additive for 10 l.	821071	OF
R/ A111	Pack of 390 g Na2-EDTA powder (for 10 l) and 400 g NaOH concentrate (pellets), for ammonium, nitrate, nitrite and orthophosphate TresCon® module.	821075	OF
RD/P511	Reagent D for module OP 510 (resp. TresCon® P511).	821096	OF
RC/P511	Reagent C for module OP 510 (resp. TresCon® P511).	821097	OF
RB/P511	Reagent B for module OP 510 (resp. TresCon® P511).	821098	OF
RA/P511	Reagent A for module OP 510 (resp. TresCon® P511).	821099	OF
S/ BI - P211	Standard solution B-I (1.6 mg/l PO4-P) 1.5 l, for orthophosphate TresCon® module OP 210/MB 1 (resp. TresCon® P211 MB 1, TCU/P211 MB 1, OP 511, P 511).	821121	OF
C/TCM1	1.5 l cleaning solution for nitrate/SAC, nitrite, orthophosphate, total phosphorus for analyzer module TresCon® ON 210 and OS 210, TresCon® ON 510, TresCon® OP 210, TresCon® OP 510, and analyzers TresCon® N211/S211/N511/P211/P511 and TCU/N211/S211/N511/P211. Suitable as reagent solution for ammonium for analyzer module TresCon® OA110 and analyzers TresCon® A111 and TCU/A111	821156	OF
EL/ TC	Spare lamp for photometer block.	821175	OF
Wpack/P511	Set of maintenance kit (fittings and spare tubes) for TresCon® total phosphorus analyzer module OP 510, TresCon® P511.	821201	OF

Model	Description	Order No.	
Filtration P 700 IQ			
Filter	Set of 2 filter membranes for filter membrane module FM and module case FM-Case	821972	OI
SL 5	Suction tube with slide, unheated, 5 m (16.2 ft)	821978	OI
FM	Filter membrane module with premounted membrane	821987	OI
Filter/PC	Filter module for housing FM-Case/PC. Suitable for Alyza IQ and P 700 IQ	821940	OI
FM-Case/PC	Housing for filter module Filter/PC. Suitable for Alyza IQ and P 700 IQ	821941	OI
FM-B	Cleaning brush for filter membrane module	821968	OX
FM-Adapter	Adapter for horizontal mounting of filter membrane module FM	821983	OI
Filter-CL	Cleaning case for filter membranes	821984	OI
M-EXT 1.5	Extension for attachment M 1.5. Included: Extension 1.5 m, chain, bracket	821985	OI
M 1.5	Attachment for filtration. Included: Rail 1.5 m (4.9 ft), chain, bracket	821986	OI
RL 20	Permeate return line, unheated, 20 m (65 ft)	821954	OI
RL 115-20	Permeate return line, heated, 115 VAC, 20 m (65 ft)	821955	OI
SL 20	Suction tube with slide, unheated, 20 m (65 ft)	821957	OI
SL 115-20	Suction tube with slide, heated, 115 VAC, 20 m (65 ft)	821959	OI
SL 230-20	Suction tube with slide, heated, 230 VAC, 20 m (65 ft)	821960	OI
RL 10	Permeate return line, unheated, 10 m (32 ft)	821964	OI
RL 115-10	Permeate return line, heated, 115 VAC, 10 m (32 ft)	821965	OI
RL 230-10	Permeate return line, heated, 230 VAC, 10 m (32 ft)	821966	OI
RL 2	Permeate return line, unheated, 2 m (6.5 ft)	821974	OI
RL 115-2	Permeate return line, heated, 115 VAC, 2 m (6.5 ft)	821975	OI
RL 230-2	Permeate return line, heated, 230 VAC, 2 m (6.5 ft)	821976	OI
SL 10	Suction tube with slide, unheated, 10 m (33 ft)	821977	OI
SL 115-10	Suction tube with slide, heated 115 VAC, 10 m (33 ft)	821979	OI
SL 230-10	Suction tube with slide, heated, 230 VAC, 10 m (33 ft)	821980	OI
SL 115-5	Suction tube with slide, heated 115 VAC, 5 m (16.2 ft)	821981	OI
SL 230-5	Suction tube with slide, heated, 230 VAC, 5 m (16.2 ft)	821982	OI
Accessories P 700 IQ			
Filter-REP	Replacement air filter for fan of Alyza IQ and P 700 IQ	821969	OI
ST-BT	Bottle top with tube	821970	OI
ST 0.0	Standard solution 0.0 mg/l PO4-P (zeroing) for P 700 IQ (1.0 l)	821971	OI
RM	Rail mount for Alyza IQ and P 700 IQ	821988	OK
WM	Wall mount for Alyza IQ and P 700 IQ	821989	OI
LED	Replacement LED for photometer unit	821990	OI
SM	Stand mount for Alyza IQ and P 700 IQ	821991	OI
T SET B	Set of replacement parts (fittings and spare tubes)	821992B	OI
PT	Replacement pump tube	821993	OI
PM	Replacement pump motor for peristaltic pump	821994	OI
ST 20.0	Standard solution 20.0 mg/l PO4-P for P 700 IQ (1.0 l)	821995	OI
ST 8.0	Standard solution 8.0 mg/l PO4-P for P 700 IQ (1.0 l)	821996	OI
ST 1.6	Standard solution 1.6 mg/l PO4-P for P 700 IQ (1.0 l)	821997	OI
CL 1.0	Cleaning solution for P 700 IQ (1.0 l)	821998	OI
RE 2.5	Reagent for P 700 IQ for orthophosphate measurement (2.5 l)	821999	OI
Accessories TresCon®			
TC/ÜB 1	Overflow vessel for 1 parameter, for TresCon® systems.	821004	OF

Model	Description	Order No.	
Analog sensors as replacement for EcoLine® 170 and QuadroLine® 296			
SensoLyt® 690-7	Standard pH/ORP sensor with low impedance signal transmission, for connection to analog monitors. With built-in pre-amplifier and temperature sensor (NTC), with 7 m (23 ft) cable and watertight plug	109180	0G
SensoLyt® 700-7	Standard pH/ORP armature with low impedance signal transmission, with SensCheck function, for connection to EcoLine and QuadroLine® monitors. With built-in pre-amplifier and temperature sensor (NTC), with 7 m (23 ft) cable and watertight plug	109191	0A
TriOxmatic® 700-7	Universal D.O. sensor with SensCheck for monitoring/controlling O2 input in waste-water treatment plants, for use with Eco-, Quadro- and TecnoLine monitor. Supplied with accessory kit (ZBK 600) comprising: 2 exch. membr. heads (WP 600/2), 50 ml electrolyte solution (ELY/A), 50 ml cleaning solution, 1x cathode cleaner (SF300), with integr. temperature sensor (NTC), 7 m/23 ft cable and watertight plug	201670	0A
TriOxmatic® 700-15	Universal D.O. sensor with SensCheck for monitoring/controlling O2 input in waste-water treatment plants, for use with Eco-, Quadro- and TecnoLine monitor. Supplied with accessory kit (ZBK 600) comprising: 2 exch. membr. heads (WP 600/2), 50 ml electrolyte solution (ELY/A), 50 ml cleaning solution, 1x cathode cleaner (SF300), with integr. temperature sensor (NTC), 15 m/49 ft cable and watertight plug	201672	0A
TetraCon® 700-7	Universal 4 electrode conductivity cell especially for waste water treatment plants, for use with EcoLine® and QuadroLine® monitors. With integrated temperature sensor, 7 m (23 ft) cable and watertight plug (IP68)	302316	0A
TetraCon® 700-15	Universal 4 electrode conductivity cell especially for waste water treatment plants, for use with EcoLine® and QuadroLine® monitors. With integrated temperature sensor, 15 m (49 ft) cable and watertight plug (IP68)	302318	0A

Sellout of products

Model		Description	Order No.	
PurCon®				
PurCon®/230		PurCon® sample preparation system, incl. instruction manual, 230VAC/50Hz . Supplied with: 1 m (3.3 ft) permeate tubing with adapter and 3 cable clamp for feed tubing.	810000	OF
PurCon®/115		PurCon® sample preparation system, incl. instruction manual, 115VAC/60Hz. Supplied with: 1 m (3.3 ft) permeate tubing with adapter and 3 cable clamp for feed tubing.	810008	OF
Sensors for EcoLine® 170 and QuadroLine® 296				
Sensolyt® 690-SO	*	Standard pH/ORP sensors with low impedance signal transmission, for connection to analog monitors. With built-in pre-amplifier and temperature sensor (NTC), with customized cable length and watertight plug	109181V	OG
Sensolyt® 700-SO	*	Standard pH/ORP armature with low impedance signal transmission, with SensCheck function, for connection to EcoLine® and QuadroLine® monitors. With built-in pre-amplifier and temperature sensor (NTC), with customized cable length and watertight plug	109193V	OA
TriOxmatic® 700-SO*	*	Universal D.O. sensor with SensCheck for monitoring/controlling O2 input in waste-water treatment plants, for use with Eco-, Quadro- and TecnoLine monitor. Supplied with accessory kit (ZBK 600) comprising: 2 exch. membr. Heads (WP 600/2), 50 ml electrolyte solution (ELY/A), 50 ml cleaning solution, 1x cathode cleaner (SF300), with integr. temperature sensor, customized cable length, watertight plug	201674V	OA
TetraCon® 700-SO	*	Universal 4 electrode conductivity cell especially for waste water treatment plants, for use with EcoLine and QuadroLine® monitors. ith integrated temperature sensor, customized cable length and watertight plug (IP68)	302319V	OA

Drinking Water Monitoring

Ready-to-use Systems

for monitoring of quality relevant parameters
in drinking water

- Pre-assembled
- Ready for use
- Flexible and multi-purpose

pH

Cond

ORP

Cl₂

Turb

O₂

Drinking water products by Order No.

Order No.	Model	Pricelist page
104100	SenTix®ML 70	OA 123
104150	SenTix®ML ORP	OA 123
104151	TFK 5000	OA 123
108150	AK-S7/1	OA 124
108152	AK-CL	OA 123
108153	AK-CI 298	OA 85, 123
108154	AK-USB 298	OA 77, 124
108703	TEP 10 Trace	LI1 17, 78, 124
108800	TPL 4	LI1 124
108802	TPL 7	LI1 124
108805	TPL 10 Trace	LI1 124
109110	PL 4	LI1 124
109120	PL 7	LI1 124
109130	PL 9	LI1 124
109740	RH 28	LC 17, 78, 124
191234	pH 298 Pt1000	OH 77, 123
201150	D-CL	OA 124
201187	FCML 412 N	OA 85, 123
201188	FCML 412 N-S	OA 123
201192	TCML N	OA 85, 123
201193	TCML N-S	OA 123
201931	Oxi ML 41	OA 124
202300	ZBK-Oxi ML 41	OA 124
205245	ZBK-TCML N	OA 85, 123
205246	ZBK-FCML 412 N	OA 85, 123
205247	ZBK-FCML 412	OA 85, 123
205248	ZBK-FCML 68	OA 85, 123
205249	ZBK-TCML	OA 85, 123
290051	MLU-2260	OA 123
291234	Oxi 298 Pt1000	OH 123
300572	E-SET Trace	LC 124
301150	LR ML	OA 124
391234	LF 298 Pt1000	OH 123
401993	D 220	OA 124
401995	D 222/3	OA 124
480200	MULTILINE 1000-230VAC	OA 123
480201	MULTILINE 1000-115VAC	OA 123
480265	DFL-G1/4	OA 124
600026	Turb PLUS 2020	OA 124
600036	Turb PLUS 2120	OA 124
600037	Turb PLUS 2120 Set	OA 124
600041	BC-Turb/DW	OX 124
600046	FTC 3-Turb/DW	OX 124
600047	FTC US-Turb/DW	OX 124
600048	DP-Turb/DW	OA 124
600049	Tub Kit-Turb/DW	OA 124
600050	DF-Turb/DW	OA 124
600052	Kal Kit Turb/DW	OA 124
600054	Kal Kit Turb PLUS 2000	OA 124
600056	Kal Kit Turb 2110/DW	OA 125
600060	A-Set-DW	OX 125
600062	ADA-DW1	OX 125
600064	ADA-DW2	OX 125
600066	PU-TUB	OA 125
801254	CI 298 Pt1000	OH 77, 123
801260	CI 298/P - 230 VAC	OA 123
801261	CI 298/P Flow - 230 VAC	OA 123
860151	Chlorine 3017M	OB 125
860160	CLDF-Kit 30	OA 125
860165	CLDT-Kit 30	OA 125
860170	CLDF-Kit 360	OA 125

Order No.	Model	Pricelist page
860175	CLDT-Kit 360	OA 125
860180	TECL-Kit Chlorine 3000	OX 125
860181	TECL-Kit	OB 125
860185	FTCL-Kit Chlorine 3000	OA 125
860186	FC-Kit Chlorine 3017M	OB 125
860187	RC-Kit Chlorine 3017M	OB 125
860188	SID-Kit Chlorine 3017M	OB 125
860191	Z-Kal-Kit 115 VAC Chlorine 3000	OA 125
904000	Pr-DN10	OA 124
904005	DO-DN10	OA 124
904010	Cal/C	OA 124

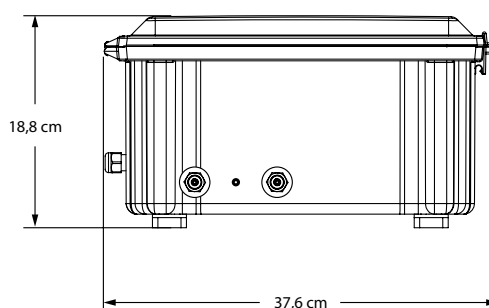
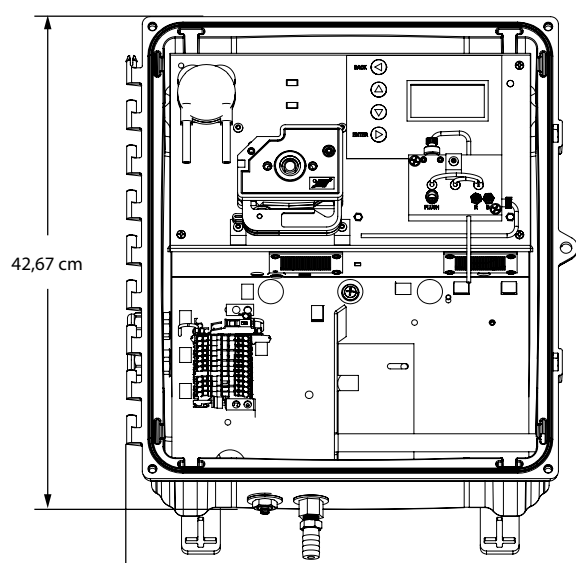
Ordering code						OH
MULTILINE 1000 Drinking water panel with flow through system, pressure reduction valve, dosing valve, cables mounted on hydrophobic plate. Connection DN 10 with:						
MULTILINE 1000 as Controller/ Terminal, 230 VAC					8T	
MULTILINE 1000 as Controller/ Terminal, with additional measurement of flow, 230 VAC					8F	
Configurable parameters / measurement inputs						
Conductivity measurement with integrated temperatur sensor (LR ML) (Input measuring module; 2-electrodes conductivity cell (0.1-20 mS/cm); fixed cable)					1	
pH measurement (SenTix® ML 70) (Input measuring module; pH combination electrode, range pH 0-14; fixed cable)					1	
ORP measurement (SenTix® ML ORP) (Input measuring module; ORP combination electrode; fixed cable)					1	
Chlorine measurement (amperometric)						
Option 1.) Free chlorine amperometric - low pH depentance (pH 4-9) (FCML 412 N) Input measuring module, electrode (0-2 mg/l), flow through armature, fixed cable					1	
Option 2.) Total chlorine amperometric (TCML N) Input measuring module, electrode (0-2 mg/l), flow through armature, fixed cable					3	
Additional parameter turbidity (4 options) with separat reading						
Option 1.) Turb PLUS 2020 with white light and with ultrasonic cleaning					2	
Option 2.) Turb PLUS 2120 with IR light and with ultrasonic cleaning					4	
All turbidity meters: Decription: range 0-1000 NTU; resolution 0,0001NTU; temperature range 1-50 °C, 2 user-defined alarm outputs. 120-240 VAC, 2 relays, 4-20 mA outputs, RS485 Modbus						
*) If an option is required, please enter the relevant number in the cell. If the option is not required, enter „0“.						
Your order number:*)						

Drinking water products

Model	Description	Order No.	
Single Parameter Chlorine (panel)			
CI 298/P - 230 VAC	Single Parameter Panel for measuring free or total chlorine in drinking water. Analog transmitter with 2 analog and 2 relay outputs, Modbus, 115V/230V. (order sensor separately)	801260	OA
CI 298/P Flow - 230 VAC	Single Parameter Panel for measuring free or total chlorine in drinking water. Analog transmitter with 2 analog and 2 relay outputs, Modbus, FlowControl, 115V/230V. (Order sensor separately)	801261	OA
Transmitter (Multi parameter)			
MULTILINE 1000-230VAC	Multiparameter transmitter for up to 16 sensors (pH/ORP, conductivity, temperatur, turbidity, free and total chlorine, dissolved oxygen), Touch-Screen, digital communication interface (Modbus/RS485), internal logger (up to 50.000 entries incl. Date and time), 16 inputs (4 internal, 12 external), 4 virtual channels, can be equipped with: 4 external current outputs (0/4-20 mA), 4 internal relays, languages: german, english, chinese; power supply 230 VAC	480200	OA
MULTILINE 1000-115VAC	Multiparameter transmitter for up to 16 sensors (pH/ORP, conductivity, temperatur, turbidity, free and total chlorine, dissolved oxygen), Touch-Screen, digital communication interface (Modbus/RS485), internal logger (up to 50.000 entries incl. Date and time), 16 inputs (4 internal, 12 external), 4 virtual channels, can be equipped with: 4 external current outputs (0/4-20 mA), 4 internal relays, languages: german, english, chinese; power supply 115 VAC	480201	OA
Transmitter (single parameter)			
pH 298 Pt1000	Monitor for direct connection of analog pH/ORP electrodes, with 2 analog and relay outputs, Modbus, 115V/230V and Pt1000	191234	OH
Oxi 298 Pt1000	Monitor for direct connection of analog oxygen sensors, with 2 analog and relay outputs, Modbus, 115V/230V and Pt1000	291234	OH
LF 298 Pt1000	Monitor for direct connection of analog conductivity measuring cells, with 2 analog and relay outputs, Modbus, 115V/230V and Pt1000	391234	OH
CI 298 Pt1000	Monitor for direct connection of analog chlorine sensors, with 2 analog and relay outputs, Modbus, 115V/230V and Pt1000	801254	OH
Modules for MULTILINE 1000			
MLU-2260	Internal measuring module for chlorine (board mountable into MULTILINE 1000)	290051	OA
Chlorine sensors and Accessories for CI 298 and MULTILINE 1000			
AK-CI 298	2-wired cable to connect the chlorine sensors FCML 68/412 (N) and TCML (N) to the controllers CI 298 and Multiline 1000, 5m. When ordering a drinking water panel, the cable does not need to be ordered separately.	108153	OA
FCML 412 N	pH independent chlorine sensor FCML 412 N, electrochemical measurement, appropriate for the online measurement of free chlorine in drinking water and swimming pools. Range: 0-2 mg/l; pH range 4-9	201187	OA
TCML N	Chlorine sensor TCML N, electrochemical measurement, appropriate for the online measurement of total chlorine in drinking water and swimming pools. Range: 0-2 mg/l	201192	OA
ZBK-TCML N	Maintenance kit for chlorine sensor TCML N(-S). Includes 100 ml electrolyte and 1 replacement membrane.	205245	OA
ZBK-FCML 412 N	Maintenance kit for chlorine sensor FCML 412 N(-S): Includes 100 ml electrolyte and 1 replacement membrane.	205246	OA
ZBK-FCML 412	Maintenance kit for chlorine sensor FCML 412. Includes 100 ml electrolyte and 1 replacement membrane.	205247	OA
ZBK-FCML 68	Maintenance kit for chlorine sensor FCML 68. Includes 100 ml electrolyte and 1 replacement membrane.	205248	OA
ZBK-TCML	Maintenance kit for chlorine sensor TCML(-S). Includes 100 ml electrolyte and 1 replacement membrane.	205249	OA
Replacement sensors for CL 7010			
AK-CL	4-wire connection cable (1m/3.3 ft) for chlorine electrodes FCML 412-S, FCML 68-S, TCML-S for connection to the transmitter CL 7010.	108152	OA
FCML 412 N-S	Electrode for free chlorine according to electrochemical principle. For measuring in drinking water and swimming pools. Range: 0.05 - 20 mg/l, pH range 4 - 9	201188	OA
TCML N-S	TCML N-S electrode for total chlorine according to electrochemical principle. For measuring in drinking and pool water. Range: 0.05 - 10 mg/l; pH range 4 - 12	201193	OA
pH/ORP Electrodes and Accessories			
SenTix®ML 70	pH combination electrode with gel electrolyte, S7 plug head, glass-shaft; PG 13.5 screw thread	104100	OA
SenTix®ML ORP	ORP combination electrode with gel electrolyte, S7 plug head, glass-shaft; PG 13.5 screw thread	104150	OA
TFK 5000	Temperature sensor Pt 1000 for transmitter Multiline 1000 and pH 298 ph Pt1000; open cable ends.	104151	OA

Model	Description	Order No.	
AK-S7/1	Cable ORP/pH, S7 connector, 1 m (3.3 ft), included in pre-assembled panel MULTILINE 1000	108150	OA
TEP 10 Trace	Technical buffer solution, 1 bottle with 1 l: pH 10.01	108703	LI1
TPL 4	Technical buffer solution pH = 4.01, 1 bottle with 250 ml: pH 4.01	108800	LI1
TPL 7	Technical buffer solution pH = 7.00, 1 bottle with 250 ml: pH 7.00	108802	LI1
TPL 10 Trace	Technical buffer solution pH = 10.01, 1 bottle with 250 ml: pH 10.01	108805	LI1
PL 4	Standard (DIN/NBS) buffer solution, 1 bottle with 250 ml: pH 4.006/4.01	109110	LI1
PL 7	Standard (DIN/NBS) buffer solution, 1 bottle with 250 ml: pH 6.865 /6.87	109120	LI1
PL 9	Standard (DIN/NBS) buffer solution, 1 bottle with 250 ml: pH 9.180 /9.18	109130	LI1
RH 28	ORP buffer solution pH 7, UH = 427 mV (CH), 1 bottle with 250 ml.	109740	LC
Conductivity Cell and Accessories			
E-SET Trace	Calibration set for conductivity measurement, 6 bottles with 50 ml calibration and control standard each, KCl 0.01 mol/l, traceable to PTB/NIST.	300572	LC
LR ML	Conductivity cell, with 1 m fixed cable, 2 graphite electrodes; - 5-80°C; range 100 µS/cm - 20 mS/cm; temperature measurement with Pt 1000, PG 13.5 screw thread	301150	OA
Dissolved Oxygen Sensor and Accessories			
Oxi ML 41	Electrochemical D.O. sensor with 1 m (3.3 ft) fixed cable for measuring and controlling oxygen in drinking water. Use with transmitter MULTILINE 1000 or Oxi 4000. Range: 0-20 mg/l or 0 - 200%, temperature range: -5-45 °C, with temperature sensor Pt 1000; open cable ends.	201931	OA
ZBK-Oxi ML 41	Maintenance kit for oxygen electrode Oxi ML 41. Includes 3 pcs. replacement membranes and 6 vials electrolyte.	202300	OA
Flowmeter			
DFL-G1/4	Flow meter with frequency output, PVC, DN10	480265	OA
Flow-through Armatures and Accessories			
AK-USB 298	Cable for analog controllers of series 298 to export logged data via USB.	108154	OA
D-CL	Flow-thru armature for chlorine sensors FCML 68/412 (N) and TCML (N). 1 sensor mountable, DN 15.	201150	OA
D 220	Angular flow thru armature for conductivity and oxygen sensors with PG 13.5 screw thread. Material: PVC.	401993	OA
D 222/3	Flow thru armature for pH, conductivity and ORP sensors with PG 13.5 screw thread. Material: PVC	401995	OA
Pr-DN10	Pressure reduction valve. Input pressure max. 16 bar, outlet pressure 1.5-6 bar adjustable. DN10 for DW Panel with MULTILINE 1000	904000	OA
DO-DN10	Dosing valve for flow regulation (0-90 l/min, DN10 PVC)	904005	OA
Cal/C	Calibration console designed for drinking water panel MULTILINE 1000, PVC white	904010	OA
Turbidity Meters and Accessories			
Turb PLUS 2020	Online turbidity meter Turb PLUS 2020 with white light, nephelometric, with ultrasonic cleaning system; Specifications meet US EPA 180.1; Preconfigured range 0-100 FNU / NTU (±2% or ±0,02 NTU under 40 NTU); changeable by customers to 0-10 or 0-1000; Integrated bubble rejection system; Outputs: current 4-20 mA and RS 485 (Modbus); Scratch-resistant borosilicate glass cuvette. 110-240 VAC	600026	OA
Turb PLUS 2120	Online turbidity meter Turb PLUS 2120 with infrared light, nephelometric, with ultrasonic cleaning system; Specifications meet ISO EN DIN 7027; preconfigured measuring range 0-100 FNU / NTU (±2% or ±0,02 NTU under 40 NTU); changeable by customers to 0-10 or 0-1000; Integrated bubble rejection system; Outputs: current 4-20 mA and RS 485 (Modbus); Scratch-resistant borosilicate glass cuvette, 110-240 VAC	600036	OA
Turb PLUS 2120 Set	Online Turbiditymeter-Set; Additional Bubble trap included; Measurement with Infraredlight, nephelometric; Specifications meet DIN EN ISO 7027; preconfigured measuring range 0 - 100 FNU / NTU (± 2% / 0,02 NTU under 40 NTU); Outputs: current 0/4-20 mA and RS 485 (Modbus); Cuvette: scratch-resistant Borosilicate Glass; Turbidimeter TURB PLUS 2120 with integrated cuvette and hoses, standards need to be ordered separately;	600037	OA
BC-Turb/DW	Bubble rejection system for online turbidity meters Turb 2000 - Turb 2120	600041	OX
FTC 3-Turb/DW	3 flow through cuvettes for online turbidity meters of TURB 2000 series without ultrasonic cleaning system	600046	OX
FTC US-Turb/DW	1 flow through cuvette for online turbidity meters of TURB 2000 series with ultrasonic cleaning system	600047	OX
DP-Turb/DW	1 replacement desiccant tray for online turbidity meters Turb 2000 - Turb 2120	600048	OA
Tub Kit-Turb/DW	Tubing Kit (tubings, fittings, clamps, back pressure valve) online turbidity meters Turb 2000 - Turb 2120	600049	OA
DF-Turb/DW	Flow through unit for online turbidity meters Turb 2000 - Turb 2120	600050	OA
Kal Kit Turb/DW	Calibration standard set for online turbidity meters Turb 2000 - Turb 2120 (excluding Turb 2110); Standards 0.02, 10 and 1000 NTU; cleaning tissues and designation rings. Acc. To EN ISO 7027 (secondary) and US EPA (Primary standard)	600052	OA
Kal Kit Turb PLUS 2000	Calibration standard set for online turbidity meters Turb PLUS 2000 Standards 0.02, 10 and 100 NTU; cleaning tissues and designation rings. Acc. to DIN EN ISO 7027 (secondary) and US EPA (Primary standard).	600054	OA

Model	Description	Order No.	
Kal Kit Turb 2110/DW	Calibration Kit for turbidimeter TURB 2110; 0.02 NTU, 1.0 NTU and 10 NTU. Polymeric standards; No use of Formazin; most easy handling; Certified as alternative use secondary standards equivalent to freshly prepared Formazin Suspension Ref DIN EN ISO 7027. Approved as primary calibration standards (USEPA 180.1)	600056	OA
A-Set-DW	Set for connection of turbidity meters series Turb 2000 and chlorine analyzer Chlorine 3000. Scope of delivery: 3 m (9.7 ft) PU-hose, 2 quick disconnect couplers for PU-hose with ¼" NPT female screw thread	600060	OX
ADA-DW1	Adapter for A-Set-DW quick-lock coupling with ¼" NPT female screw thread to DN20 flange.: consisting of adapter and R½" double socket	600062	OX
ADA-DW2	Adapter for A-Set-DW quick-lock coupling with ¼" NPT female screw thread to R½" female screw or male screw thread: consisting of adapter and R½" double socket	600064	OX
PU-TUB	Connection hose for Chlorine 3000 and turbidity meters Turb 2000 series. PU-hose, blue, 10 m (33 ft)	600066	OA
Chlorine Analyzers and Accessories			
A-Set-DW	Set for connection of turbidity meters series Turb 2000 and chlorine analyzer Chlorine 3000. Scope of delivery: 3 m (9.7 ft) PU-hose, 2 quick disconnect couplers for PU-hose with ¼" NPT female screw thread	600060	OX
ADA-DW1	Adapter for A-Set-DW quick-lock coupling with ¼" NPT female screw thread to DN20 flange.: consisting of adapter and R½" double socket	600062	OX
ADA-DW2	Adapter for A-Set-DW quick-lock coupling with ¼" NPT female screw thread to R½" female screw or male screw thread: consisting of adapter and R½" double socket	600064	OX
PU-TUB	Connection hose for Chlorine 3000 and turbidity meters Turb 2000 series. PU-hose, blue, 10 m (33 ft)	600066	OA
Chlorine 3017M	Online analyzer for photometric measurement of free and total chlorine, according to colorimetric DPD Method (ISO & US EPA); outputs (selectable): 4 to 20 mA or RS 485 Modbus; range: 0-5 mg/l; sample inlet device not included;	860151	OB
CLDF-Kit 30	Dry reagent kit for the measurement of free chlorine, supply for 30 days.	860160	OA
CLDT-Kit 30	Dry reagent kit for the measurement of total chlorine, supply for 30 days.	860165	OA
CLDF-Kit 360	Dry reagent kit for the measurement of free chlorine, supply for 12 months	860170	OA
CLDT-Kit 360	Dry reagent kit for the measurement of total chlorine, supply for 12 months	860175	OA
Chlorine 3017M and accessories			
TECL-Kit	Replacement tubing kit for the Chlorine 3017M	860181	OB
FC-Kit Chlorine 3017M	Glass flow cell for the Chlorine 3017M	860186	OB
RC-Kit Chlorine 3017M	Reagent caps Chlorine 3017M	860187	OB
SID-Kit Chlorine 3017M	Sample inlet device Chlorine 3017M	860188	OB
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TECL-Kit Chlorine 3000	Replacement tubing for chlorine analyzer Chlorine 3000	860180	OX
FTCL-Kit Chlorine 3000	Flow through cuvette for chlorine analyzer Chlorine 3000	860185	OA
Z-KAI-Kit 115 VAC Chlorine 3000	Zero calibration Kit for chlorine analyzer Chlorine 3000 high-precision zero calibration, 115 VAC	860191	OA
Sellout of drinking water products			
TURB 2020	Online turbidity meter with white light, nephelometric, with ultrasonic cleaning system; Specifications meet US EPA 180.1; Range 0-1000 FNU / NTU (±0,02 NTU); Integrated bubble rejection system; Outputs: selectively current 4-20 mA or RS 485 (Modbus); Scratch-resistant borosilicate glass cuvette. 110-240 VAC	600025	OA



Dimensional drawing of Chlorine 3017M

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General Terms and Conditions

January 2018. Changes reserved. Please find the latest version on our website: www.wtw.com/en/terms-and-conditions.html

1. APPLICATION

Except as otherwise expressly agreed in writing, these conditions ("General Conditions") shall exclusively apply to all deliveries and services of XYLEM Analytics Germany Sales GmbH & Co. KG (in the following: Contract). Deviating conditions of the Purchaser shall not apply.

2. MINIMUM NET ORDER VALUE, VALIDITY OF QUOTATIONS, CUSTOM MADE PRODUCTS, EXCESS DELIVERIES AND CANCELLATION OF ORDERS, TRANSFER OF RISK

2.1 The minimum net order value amounts to EUR 100. For orders below this amount Supplier reserves the right to charge handling costs of EUR 20.

2.2 Quotations are valid for thirty (30) calendar days from the date of issuance unless otherwise agreed in writing by Supplier, subject to prior sale. Supplier reserves the right to cancel or withdraw the quotation at any time with or without notice or cause prior to acceptance by the Purchaser. Supplier nevertheless reserves its right to accept any contractual documents received from the Purchaser after this 30-day period.

2.3 The price for custom made products shall be separately agreed between the Parties.

2.4 Supplier shall have the right to deliver an excess quantity of up to 10% that has to be paid by Purchaser.

2.5 If the Purchaser fully or partly cancels an order for non-custom made products without justification Supplier shall be entitled, notwithstanding the right to assert a higher damage that has actually been incurred due to the cancellation, to demand 10% of the sales price for the cancelled order volume as compensation for the processing and minimum loss of profits unless Purchaser establishes proof of a lower damage. The cancellation or amendment of an order for custom made products shall not be possible.

3. PRODUCT INFORMATION

All information and data contained in general product documentation and price lists, whether in electronic or any other form, are binding only to the extent that they are by reference expressly included in the Contract.

4. DRAWINGS AND DESCRIPTIONS

4.1 All drawings and technical documents relating to the Product or its manufacture submitted by one party to the other, prior or subsequent to the formation of the Contract, shall remain the property of the submitting party.

4.2 Drawings, technical documents or other technical information received by one party shall not, without the consent of the other party, be used for any other purpose than that for which they were provided. They may not, without the consent of the submitting party, otherwise be used or copied, reproduced, transmitted or communicated to a third party.

4.3 Supplier shall, not later than at the date of delivery of Products, provide free of charge information and drawings which are necessary to permit the Purchaser to erect, commission, operate and maintain the Product. Such information and drawings shall be supplied in the number of copies agreed upon or at least one copy of each. Supplier shall not be obliged to provide manufacturing drawings for the Product or for spare parts.

5. INSPECTIONS AND TESTS

5.1 Inspections

5.1.1 If expressly agreed in the Contract, the Purchaser shall be entitled to have the quality of the materials used and the parts of the Product, both during manufacture and when completed, inspected and checked by its authorised representatives. Such inspection and checking shall be carried out at the place of manufacture during normal working hours after agreement with Supplier as to date and time, and at the Purchaser's expense.

5.2 Tests

5.2.1 Acceptance tests provided for in the Contract shall, unless otherwise agreed, be carried out at the place of manufacture during normal working hours.

5.2.2 If the Contract does not specify the technical requirements, the tests shall be carried out in accordance with the Supplier's standard practice.

5.2.3 If the Purchaser in due time has requested in writing, Supplier shall notify the Purchaser in writing of the acceptance tests in sufficient time to permit the Purchaser to be represented at the tests. If the Purchaser is not represented, the test report shall be sent to the Purchaser and shall be accepted as accurate. With regard to standard products (as defined by Supplier from time to time) only a "production card" will be delivered with the Product stating that the Product has passed the test procedure and thereby is approved. If requested by the Purchaser in writing and prior to the performance of the test, a test report will be sent to the Purchaser at an additional cost reasonably determined by Supplier.

5.2.4 If the acceptance tests show the Product not to be in accordance with the Contract, Supplier shall without delay remedy any deficiencies in order to ensure that the Product complies with the Contract. New tests shall then be carried out at the Purchaser's request, unless the deficiency in Supplier's sole opinion was insignificant.

5.2.5 Supplier shall bear all costs for acceptance tests carried out at the place of manufacture. The Purchaser shall however bear all costs and expenses for its representatives in connection with such tests. The Purchaser shall bear all costs for any optional tests requested by the Purchaser.

6. DELIVERY, PASSING OF RISK

6.1 Any agreed trade term shall be construed in accordance with INCOTERMS 2010. If no trade term is specifically agreed, the delivery ("Delivery") shall be DAP, Purchaser's address as set out in the Purchaser's purchase order accepted by Supplier. However, Supplier's costs for DAP delivery shall be paid by Purchaser as set out in Clause 9.6 below.

6.2 Partial shipments shall be permitted unless otherwise agreed.

7. TIME FOR DELIVERY

7.1 Time for Delivery

If the Parties, instead of specifying the date for Delivery, have specified a period of time on the expiry of which Delivery shall take place, such period shall start to run as soon as the Contract is entered into, all official formalities have been completed, payments due at the formation of the Contract have been made, any agreed securities have been given and any other preconditions have been fulfilled.

7.2 Delay on part of Supplier

7.2.1 Any time periods specified by Supplier in the Contract for Delivery are to be treated as estimates whilst the Supplier shall make reasonable

efforts to deliver on time. If Supplier anticipates that it will not be able to deliver the Product at the time for Delivery ("**Delay**"), Supplier shall inform the Purchaser thereof and, if possible, the time when Delivery can be expected.

7.2.2 If Delay is caused by any of the circumstances mentioned in Clause 14 or by an act or omission on the part of the Purchaser, including suspension under Clauses 9.4 or 14, the time for Delivery shall be extended by a period which is reasonable having regard to all the circumstances in the case. This provision applies regardless of whether the reason for the Delay occurs before or after the agreed time for Delivery.

7.2.3 In case of Delay, the Purchaser may in writing demand delivery within a final reasonable period which shall not be less than ninety (90) days from the Supplier's receipt of such demand. If Supplier does not deliver within such final period and this is not due to any circumstance for which the Purchaser is responsible or a Delay covered by Clauses 7.3 or 14, then the Purchaser may by notice in writing to Supplier terminate the Contract in respect of such part of the Product that cannot, in consequence of Supplier's failure to deliver, be used as intended by the Parties. **THE PURCHASER SHALL IN NO EVENT BE ENTITLED TO ANY LIQUIDATED DAMAGES IN THE CASE OF DELAY.**

7.2.4 If the Purchaser terminates the Contract due to Delay, it shall be entitled to compensation for the loss it has suffered as a result of Supplier's Delay. The total compensation shall not exceed, except in cases of intent or gross negligence, 10 percent of that part of the purchase price which is attributable to the part of the Product in respect of which the Contract is terminated.

7.3 Delay on part of the Purchaser

7.3.1 If the Purchaser anticipates that it will be unable to accept Delivery of the Product at the Delivery time, it shall forthwith notify Supplier in writing thereof, stating the reason and, if possible, the time when it will be able to accept Delivery.

7.3.2 If the Purchaser for any reason fails to accept Delivery at the Delivery time, it shall nevertheless pay any part of the purchase price which becomes due on Delivery, as if Delivery had taken place. Supplier shall arrange for storage of the Product at the risk and expense of the Purchaser. Any other direct and/or financial costs incurred as a result of such failure to accept Delivery shall be borne by the Purchaser. Supplier shall, if the Purchaser so requires in writing, insure the Product on behalf of the Purchaser and at the Purchaser's expense.

7.3.3 Unless the Purchaser's failure to accept Delivery is due to any such circumstance as mentioned in Clause 14, Supplier may by notice in writing require the Purchaser to accept Delivery within a final reasonable period.

7.3.4 If, for any reason for which Supplier is not responsible, the Purchaser fails to accept Delivery within such period, Supplier may by notice in writing terminate the Contract in whole or in part. Supplier shall then be entitled to compensation for the loss it has suffered by reason of the Purchaser's default. The compensation shall not exceed that part of the purchase price which is attributable to that part of the Product in respect of which the Contract is terminated.

8. ALTERATIONS AND CANCELLATION

8.1 If the Purchaser requests an alteration of the Contract, and Supplier accepts such alteration (which acceptance shall not be unreasonably withheld), the alteration will be deemed as a new Contract entitling

Supplier to a restart of the Delivery time which will start to run on the date of the approval in writing by Supplier of the alteration.

8.2 All additional costs incurred as a result of the alteration will be charged to the Purchaser, in addition to the purchase price.

8.3 If the Purchaser cancels the Contract in whole or in part without cause, the Purchaser shall, unless otherwise agreed in writing, reimburse Supplier for (i) all costs and expenses incurred by Supplier under the Contract up until and including the date of cancellation, and (ii) any additional costs and expenses incurred as a result of the cancellation.

9. PRICES AND PAYMENT

9.1 The purchase price shall be the price for such Products set out in Supplier's price list as of the date for Delivery if not specifically set forth in the Contract. For domestic sales, payments shall be made within 30 days of the date of the invoice in the currency stipulated in the Contract, unless otherwise agreed in writing. For export sales, full payment in advance by telegraphic transfer is required in the currency stipulated in the Contract, unless otherwise agreed in writing.

9.2 Whatever the means of payment used, payment shall not be deemed to have been effected until Supplier's account has been fully and irrevocably credited.

9.3 If the Purchaser fails to pay by the stipulated date, Supplier shall be entitled to interest from the day on which payment was due. The statutory law interest rates shall apply.

9.4 In case of late payment, Supplier may suspend its performance of the Contract until payment is received.

9.5 Notwithstanding other rights to terminate the Contract under other clauses in these General Conditions, the Supplier shall, if the Purchaser has not paid the amount due within three (3) months, be entitled to terminate the Contract by notice in writing to the Purchaser and to claim compensation for the loss it has incurred.

9.6 Unless otherwise agreed to in writing, all prices are FCA Supplier's plant, and do not, even if Delivery is DAP in accordance with Clause 6.1 above, include transportation costs or charges relating to transportation. This means that in addition to the Product price, Purchaser shall compensate Supplier for all its transportation costs and charges, as set out in invoice from Supplier to Purchaser, despite that DAP delivery applies and such costs and charges shall thus be solely the responsibility of the Purchaser. Prices exclude special packing unless otherwise agreed to by Supplier in writing. All costs and taxes for packing shall be paid by the Purchaser as an additional charge. Such costs and charges are subject to change without notice.

9.7 The price for the Products does not include any applicable sales, use, excise, GST, VAT, or similar tax. The Purchaser shall have the responsibility for the payment of such taxes if applicable.

9.8 If, during the performance of the Contract, the financial condition of the Purchaser is such that Supplier in good faith and in application of usual banking standards deems a payment in time insecure, or if a material change in the ownership of the Purchaser occurs, or if the Purchaser fails to make any payments in accordance with the terms of its Contract with Supplier, then, in any such event, Supplier is not obligated to continue performance under the Contract and may stop goods in transit and defer or decline to make delivery of goods, except upon receipt of satisfactory security or cash payments in advance.

9.9 If the Purchaser fails to make payments or fails to furnish security satisfactory to Supplier, then Supplier shall have the right to enforce payment to the full Contract price of the work completed and in process.

9.10 Upon default by the Purchaser in payment when due, the Purchaser shall immediately pay to Supplier the entire unpaid amounts for any and all shipments made to the Purchaser irrespective of the terms of said shipment and whether said shipments are made pursuant to this Contract or any other contract of sale between Supplier or any of its affiliates and the Purchaser, and Supplier may withhold all subsequent shipments until the full amount is settled. Acceptance by Supplier of less than full payment shall not be a waiver of any of its rights hereunder.

10. WARRANTY, PURCHASER'S DUTIES IN WARRANTY CASES, REIMBURSEMENT OF EXPENSES, LIABILITY

10.1 Purchaser's warranty claims depend on his proper compliance with his statutory duties of examination and notification. Notifications have to include specific information on the alleged defect and shall be in writing. Notifications based on incomplete delivery or other obvious defects shall be notified to Supplier in writing without delay, but at the latest within 10 working days of the delivery arriving at its destination. Claims of Purchaser on account of a defectiveness or incompleteness are excluded if Purchaser fails to comply with this obligation.

10.2 In the case of product defects Supplier can elect to remove the defects or to provide a defect-free replacement. Only if this repeatedly fails or is unreasonable and the defect is not only insubstantial Purchaser is entitled to rescission or reduction of the purchase price in accordance with the statutory provisions. Sec. 445a BGB remains unaffected. Purchaser is entitled to claims for damages in accordance with Clause 10.5.

10.3 Concerning any replacement of products or removal of defects a warranty period of 3 months since delivery respectively the execution of service applies which runs, however, at least until the expiry of the warranty period of the original service (see Clause 10.7).

10.4 Purchaser has to inform Supplier immediately about each indication of product defects by his clients concerning Supplier's services. Should Purchaser not fulfil this obligation his claims for product defects against Supplier shall expire. Moreover, Purchaser has to safeguard proofs in adequate manner and to give Supplier the opportunity of examination at his request.

10.5 Supplier is liable without restriction under the Product Liability Act, in the event of an express assumption of a warranty or of a procurement risk or in the event of willful or grossly negligent violations of a duty. Supplier is also liable without restriction in the event of willful or negligent injury to life, physical well-being or health. In the event of Supplier's negligence (other than gross negligence) resulting in property or pecuniary damage, Supplier shall only be liable for a breach of essential contractual duties the fulfillment of which is inevitable for the proper performance of the contract and Purchaser can particularly rely on, however, limited to characteristic damages that were foreseeable at the time of signature.

10.6 No warranty is given for damages of all kind caused by improper treatment, change, installation and/or operation of the delivered product or by incorrect advice or instruction by Purchaser unless Supplier has caused those damages at least negligently.

10.7 Defect claims shall become time-barred after 12 months as of the statutory commencement of the limitation period. The same applies to legal defects. In the event of willful or grossly negligent breaches of a duty, claims arising from tortious acts, the absence of a warranted quality, the

assumption of procurement risks or personal injury, the statutory time periods apply. Secs. 438 para. 3, 445b and 634a para. 3 BGB remain unaffected.

10.8 A further-reaching liability for damages than that provided in the paragraphs of this Clause 10. is excluded - without regard to the legal nature of the asserted claim.

10.9 The aforementioned restrictions of liability also apply, in terms of the reason and amount, in favour of Supplier's statutory representatives, employees and other vicarious agents.

11. ALLOCATION OF LIABILITY FOR DAMAGE CAUSED BY THE PRODUCT

11.1 Supplier shall not be liable for any damage to property or the environment caused by the Product after it has been delivered to the Purchaser. Nor shall Supplier be liable for any damage to products manufactured by the Purchaser, or to products of which the Purchaser's products form a part.

11.2 The Purchaser shall indemnify, defend and hold Supplier harmless to the extent that the Supplier incurs liability towards any third party in respect of loss or damage for which the Supplier is not liable according to the preceding paragraph.

11.3 If a claim for damages as described in this Clause 11 is lodged by a third party against one of the Parties, the latter party shall forthwith inform the other party thereof in writing.

11.4 Supplier and Purchaser shall be mutually obliged to let themselves be summoned to the court or arbitral tribunal examining claims for damages lodged against one of them on the basis of damage allegedly caused by the Product.

12. CONFIDENTIALITY

The Parties agree that any information received from the other party in connection with the Contract that evidently or by its nature should reasonably be understood to be confidential, shall not be disclosed by the recipient to any third party without the prior written approval of the disclosing party, except to the extent (i) this is necessary for the receiving party to exercise rights and perform duties pursuant to the Contract, (ii) the information is available to the general public or later becomes publicly available other than through a breach of the Contract, (iii) the information is actually known to the receiving party on the date that such information is disclosed as evidenced by written records in existence prior to the date of the receipt, (iv) the information is subsequently lawfully obtained by the receiving party from a third party or third parties, or (v) the information is independently developed by the receiving party prior to the disclosure.

13. FORCE MAJEURE

13.1 Either party shall be entitled to suspend performance of its obligations under the Contract to the extent that such performance is impeded or made unreasonably onerous by any of the following circumstances: industrial disputes and any other circumstance beyond the control of the parties such as pandemic, fire, earthquake, natural disaster, acts of God, war, extensive military mobilization, insurrection, requisition, seizure, embargo, acts of governments, strikes, lockouts, restrictions in the use of power and defects or delays in deliveries by sub-contractors ("Force Majeure").

13.2 The party claiming to be affected by Force Majeure shall notify the other party in writing without delay on the intervention and on the cessation of such circumstance.

13.3 If Force Majeure prevents the Purchaser from fulfilling its obligations, it shall compensate Supplier for expenses incurred in securing and protecting the Product.

13.4 Regardless of what might otherwise follow from these General Conditions, either party shall be entitled to terminate the Contract by notice in writing to the other party if performance of the Contract is suspended under this Clause 13 for more than six (6) months.

13.5 If the Purchaser terminates the Contract due to Force Majeure, the Purchaser shall, unless otherwise agreed in writing, reimburse Supplier for (i) all costs and expenses incurred by Supplier under the Contract up until and including the date of the termination and (ii) any additional costs and expenses incurred as a result of the termination.

14. ASSIGNMENT

The Purchaser shall not assign or transfer this Contract or any interest in it, or monies payable under it, without the prior written consent of Supplier and any assignment made without such consent shall be null and void. Supplier may assign its rights and/or delegate its duties in whole or in part to any affiliated company. Supplier shall notify Purchaser of any such assignment or delegation.

15. INVALIDITY

If any provision of this Contract is held to be illegal, invalid, or unenforceable by any court of competent jurisdiction, such provision will be of no force and effect, but the illegality, invalidity, or unenforceability will have no effect upon and will not impair the enforceability of any other provision of this Contract. The illegal, invalid or unenforceable provision shall be deemed to be substituted by a suitable provision which, to the extent legally permissible, comes as close as possible to the intent and purpose of the illegal, invalid or unenforceable provision. The same shall apply if the parties have unintentionally failed to address a certain matter in this Contract.

16. EXPORT REGULATIONS

The Purchaser has to comply with all legal provisions and administrative requirements as well as all other applicable laws, and in particular export regulations and the laws of the country in which the Purchaser operates. The Purchaser has to obtain all necessary approvals and licenses as well as all necessary permissions in good time, which are, according to all these applicable laws, required for the use or the export of the delivery item.

The Supplier is entitled to withhold his goods and services vis-à-vis the Purchaser if the Purchaser would violate those applicable laws or if not all necessary permissions are available and if this is not based on the Supplier's fault or responsibility.

The performance of the contract on the part of the Supplier is on condition that there are no opposing impediments due to national or international foreign trade legislation as well as embargos (and/or other sanctions).

The US Export Administration Regulations (EAR) are equally to be respected. Rights and duties of the Purchaser according to this clause endure after the expiration and premature termination of this Contract.

17. PLACE OF PERFORMANCE

Place of performance shall be the Supplier's place of business.

18. DISPUTES AND APPLICABLE LAW

18.1 All disputes arising out of or in connection with the Contract shall be finally settled by the competent courts of Weilheim, Germany, yet it is in the discretion of the Supplier to initiate court proceedings also at the

Purchaser's place of business or, in disputes regarding bills of exchange, at the place of payment of the bills of exchange.

18.2 The Contract shall be governed by the substantive law of Germany, excluding the application of the Convention on International Sales of Goods (CISG).



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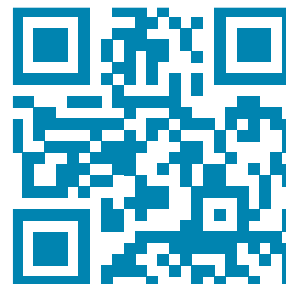
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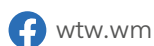
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