xylem
Let's Solve Water

IQSN Product Details

PROCESS INSTRUMENTATION
FOR WASTEWATER, DRINKING WATER AND MORE

W108-04

YSI
a xylem brand

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YSI, a Xylem Brand
1725 Brannum Lane, Yellow Springs, OH 45387 Tel: +1 937 767 7241

by Order No. 4
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000103	PB 25 S		*89*
000105	PB 25S/24		*89*
000428	V/Schlauch/25 S		*89*
000434	Schlauch/25 S		*89*
000443	EF/1/25		*89*
000444	EF/0,5/25		*89*
000449	EW/25/0,5		*89*
000670	PF 105		*87*
102274	TFK 150		*75*
102280	TFK 325		*75*
102282	TFK 325-3		*75*
102287	TFK 325-EST-3,0		*75*
105412	SensoLyt® Pt		*75*
107040	VARiON®Plus 700 IQ		*32, 53*
107042	VARiON® Ref		*32, 33*
107044	VARiON®Plus NH4		*32*
107045	VARiON®Plus NO3		*32, 33*
107046	VARiON®Plus K		*32*
107047	VARiON®Plus Cl		*32, 33*
107050	VARiON®/ES-1		*32*
107052	VARiON®/ES-2		*32, 33*
107056	VARiON® 700 IQ-SK		*33*
107057	VARiON®/Epack		*33*
107060	VARiON®Plus A comp SET NH4		*32, 53*
107062	VARiON®Plus N comp SET NO3		*32, 53*
107066	VARiON®Plus AN/A comp SET NH4 & NO3		*32, 53*
107068	VARiON®Plus AN/N comp SET NH4 & NO3		*32, 53*
107070	AmmoLyt® Plus 700 IQ		*32, 53*
107072	AmmoLyt® Plus SET/Comp		*32, 53*
107080	NitraLyt®Plus 700 IQ		*33, 53*
107082	NitraLyt®Plus SET/Comp		*32, 53*
108060	D 530		*101*
108073	D 300/pH		*101*
108153	AK-Cl 298		*83, 116*
108154	AK-USB 298		*74, 117*
108455	VP 6-19/10		*75*
108461	K 5 S		*75*
108507	AS 9-HI-6,0		*75*
108532	MZ WIS 40 IC 44		*76*
108533	MZ WIS 40 ST 44		*76*
108540	S 200		*93, 99*
108542	S 200/2		*93*
108592	ADA/AMPH		*78*
108700	TEP 4		*18, 76*
108702	TEP 7		*18, 76*
108703	TEP 10 Trace		*18, 76, 117*
109100	SensoLyt® SE		*75*
109102	SensoLyt® EC		*75*
109103	SensoLyt® DW		*75*
109114	Sensolyt® TFA	New	*17, 52, 75*
109115	SensoLyt® SEA		*17, 52, 75*
109115EX	SensoLyt® SEA EX		*84*
109117	SensoLyt® ECA		*17, 52, 75*
109117EX	SensoLyt® ECA EX		*84*
109118	SensoLyt® SEA-HP		*17, 52, 75*
109118EX	SensoLyt® SEA-HP EX		*84*
109119	SensoLyt® DWA		*17, 52, 75*
109119EX	SensoLyt® DWA EX		*85*
109125	SensoLyt® PtA		*17, 52, 75*
109125EX	SensoLyt® PtA EX		*85*
109170	SensoLyt® 700 IQ		*18, 52*
109171	SensoLyt® 700 IQ SW		*18, 52*
109173	SensoLyt® 700 IQ/SET		*18, 52*
109174	SensoLyt® 700 IQ/SET1		*18, 52*
109177	SensoLyt® 700 IQ F		*18, 72*
109180	SensoLyt® 690-7		*111*
109181V	SensoLyt® 690-SO	*	*111*
109191	SensoLyt® 700-7		*112*
109193V	SensoLyt® 700-SO	*	*112*
109194	SensoLyt® 700-SK		*18, 75*
109195	SensoLyt® 650-7		*75*
109195EX	SensoLyt® 650-7 EX		*85*
109232	GWA		*93*
109233	PL 80-120pH		*75*
109234	PL 80-225pH		*75*
109236	PL 81-225pHT VP		*75*
109237	CHEMtrac 830 M		*76*
109239	PL 82-225pHT VP		*75*
109260	UA 55		*90*
109261	UA 130		*90*
109263V	UA-SO Armatur	**	*90*
109265	UA/DS		*90*
109267EX	UA EX		*85*
109270	EH/P 170		*93*
109270EX	EH/P 170 EX		*85*
109271	EH/R 170		*93*
109272	EH/F 170-1,5		*93, 99*
109272EX	EH/F 170-1,5 EX		*85*
109273	EH/F 170-2,5		*93*
109273EX	EH/F 170-2,5 EX		*85*
109274	EH/W 170		*93*
109274EX	EH/W 170 EX		*85*
109275EX	BE/M 170-D EX		*85*
109276	BE/M 170		*93*
109278	BE/R 170		*93*
109278EX	BE/R 170 EX		*85*
109279	BE/R 170-D		*93*
109279EX	BE/R 170-D EX		*85*
109280	BE/ST 170		*93*
109280EX	BE/ST 170 EX		*85*
109281	BE/ST 170-R		*93*
109281EX	BE/ST 170-R EX		*85*
109283	BE/ST 170-M		*93*
109283EX	BE/ST 170-M EX		*85*
109284	SD/K 170		*59, 93*

** Sensor variation with different cable length („-SO"): Additional costs depending on cable length.*
*** UA-SO Sensor extension assembly with user-defined length: Additional costs depending on length.*

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109286	MR/SD 170		*59, 93*
109288	MS/SD 170		*93*
109289	MS/RKH 170		*93*
109289EX	MS/RKH 170 EX		*85*
109290	MS/KK 170		*93*
109290EX	MS/KK 170 EX		*85*
109295	SSH/IQ		*59, 93*
109304	IN/SET1		*93*
109305	IN/SET2		*93*
109306	IN/SET3		*93*
109317	EH/SW		*90, 99*
109320	EH/U 170		*90, 99*
109320EX	EH/U 170 EX		*85*
109323	EH2/U 170		*90*
109323EX	EH2/U 170 EX		*85*
109325	EH3/U 170		*90*
109351EX	ZU 0274		*85*
109353EX	ZU 0738		*85*
109355EX	ZU 0737		*85*
109360	EH/W 171		*99*
109361	EH/W 172		*99*
109362	EH/WB		*99*
109363	EH/WT-D30		*99*
109365	EH/W 173		*99*
109366	EH/W RM		*99*
109367	EH/WB-40		*99*
109444EX	Stratos Pro A 201 X pH-0		*84*
109445EX	Stratos Pro A 201 X pH-1		*84*
109446EX	WG 21 A7		*84*
109447EX	WG 21 A7 Opt. 336		*84*
109448EX	WG 21 A7 Opt. 470		*84*
109449EX	WG 21 A7 Opt. 336, 470		*84*
109740	RH 28		*18, 76, 117*
180102	ZBK/NH500/TC		*34*
191230	pH 298 NTC		*74*
191232	pH 298 Pt100		*74*
191234	pH 298 Pt1000		*74, 116*
201187	FCML 412 N		*83, 116*
201192	TCML N		*83, 116*
201640	TriOxmatic® 700 IQ		*12, 52*
201641	TriOxmatic® 700 IQ SW		*12, 52*
201643	TriOxmatic® 700 IQ F		*12, 72*
201644	TriOxmatic® 701 IQ		*12, 52*
201646	TriOxmatic® 702 IQ		*12, 52*
201650	FDO 700 IQ		*11, 52*
201652	FDO® 700 IQ SW		*11, 52*
201653	FDO 701 IQ SW		*11, 52*
201654	SC-FDO® 700		*12*
201655	SC-FDO® 701		*12*
201656	FDO® 700 IQ F		*11, 72*
201658	FDO® 701 IQ F		*11, 72*
201660	FDO 701 IQ		*11, 52*
201670	TriOxmatic® 700-7		*112*
201672	TriOxmatic® 700-15		*112*
201674V	TriOxmatic® 700-SO*	*	*112*
201678	TriOxmatic® 701-7		*78*
201680	TriOxmatic® 701-15		*78*
201682V	TriOxmatic® 701-SO	*	*78*
201690	TriOxmatic® 690-7		*78*
201692	TriOxmatic® 690-15		*78*

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201693V	TriOxmatic® 690-SO*	*	*78*
202620	ZBK 600		*12*
202621	ZBK 25i		*12*
202850	WP 600/2		*12*
202852	WP 25i/2		*12*
203680	SF 300		*12*
203745	D 700/N		*101*
203747	D 702/N		*101*
203749	DMS/N		*101*
203751	EBS 700-DU/N		*101*
203753	EBST 700-DU/N		*101*
203754	EBST 700-DU/ND		*101*
203755	ESS 700 VA/N		*85, 101*
203757	ESS 700 VA/10		*85, 101*
203761	ADA-DF 1		*101*
203767	ADA-DF 4		*105*
203771	ADA-DF 6		*105*
203773	ADA-DF 7		*105*
203777	ADA-DF 9		*105*
203779	ADA-DF 10		*85, 105*
203781	ADA-DF 11		*105*
203787	ADA-DF 14		*105*
203789	ADA-DF 15		*105*
205200	RL-AG/Oxi		*12*
205212	ELY/A		*12*
205245	ZBK-TCML N		*83, 116*
205246	ZBK-FCML 412 N		*83, 116*
205249	ZBK-TCML		*83, 116*
205253	MSK FDO		*12*
205254	MSK FDO® CS		*12*
291230	Oxi 298 NTC		*74*
300944EX	Stratos Pro A 201 X Cond-0		*84*
300945EX	Stratos Pro A 201 X Cond-1		*84*
301252	TetraCon® DU/T		*80*
301960	TetraCon® 325		*80*
301961	LR 325/01		*80*
301962	LR 325/001		*80*
301963	KKDU 325		*80*
301970	TetraCon® 325-3		*80*
301971	TetraCon® 325-6		*80*
301972	TetraCon® 325-10		*80*
301973	TetraCon® 325-15		*80*
301974	TetraCon® 325-20		*80*
302220	LRD 01-1,5		*80*
302222	LRD 01-7		*80*
302225	LRD 325-1,5		*80*
302229	LRD 325-7		*80*
302314EX	TetraCon® 700-1,5 EX		*85*
302316	TetraCon® 700-7		*112*
302316EX	TetraCon® 700-7 EX		*85*
302318	TetraCon® 700-15		*112*
302318EX	TetraCon® 700-15 EX		*85*
302319V	TetraCon® 700-SO	*	*112*
302500	TetraCon® 700 IQ		*23, 53*
302501	TetraCon® 700 IQ SW		*23, 53*
302507	TetraCon® 700 IQ F		*23, 72*
303202	ADA-G 1"		*80*
303203	ADA-LF-DN 20		*80*
303209	EST-LRD		*80*

** Sensor variation with different cable length („-SO"): Additional costs depending on cable length.*

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303212	ADA/AMPH-LAB-LF		*90*
303215	ADA/AMPH-LF		*80*
303216	ADA/LAB-LF		*80*
391230	LF 298 NTC		*74*
470020	MIQ/TC 2020 3G		*59*
470022	MIQ/TC 2020 3G-CR3		*59*
470024	MIQ/TC 2020 3G-C6		*59*
470026	MIQ/TC 2020 3G-EF		*59*
471020	MIQ/MC3		*59*
471022	MIQ/MC3-MOD		*59*
471023	MIQ/MC3-PR		*59*
471026	MIQ/3-MOD		*59*
471027	MIQ/3-PR		*59*
472005	DIQ/JB		*67, 72*
472007	DIQ/CHV		*33, 34, 43, 67, 72, 108*
472100	DIQ/S 181		*72*
472101	DIQ/S 181/24V		*72*
472110	DIQ/S 282-CR3		*67*
472111	DIQ/S 282-PR		*67*
472112	DIQ/S 282-MOD		*67*
472113	DIQ/S 282-CR3-E		*67*
472114	DIQ/S 282-EF		*67*
472120	DIQ/S 282-CR3/24V		*67*
472121	DIQ/S 282-PR/24V		*67*
472122	DIQ/S 282-MOD/24V		*67*
472123	DIQ/S 282-CR3-E/24V		*67*
472124	DIQ/S 282-EF/24V		*67*
472130	DIQ/S 284-CR6		*67*
472131	DIQ/S 284-PR		*67*
472132	DIQ/S 284-MOD		*67*
472133	DIQ/S 284-CR6-E		*67*
472134	DIQ/S 284-EF		*67*
472140	DIQ/S 284-CR6/24V		*67*
472141	DIQ/S 284-PR/24V		*67*
472142	DIQ/S 284-MOD/24V		*67*
472143	DIQ/S 284-CR6-E/24V		*67*
472144	DIQ/S 284-EF/24V		*67*
480004	MIQ/PS		*59, 67*
480006	MIQ/24V		*59, 67*
480008	MIQ/JB		*59, 67*
480010	MIQ/JBR		*59*
480013	MIQ/R6		*59, 67*
480014	MIQ/CR3		*59, 68*
480015	MIQ/C6		*59, 68*
480016	MIQ/IC2		*59, 68*
480017	Cleaning Air Box - 115 VAC		*33, 34, 43, 108*
480018	MIQ/CHV PLUS		*33, 34, 43, 59, 68, 108*
480019	Cleaning Air Box - 230 VAC		*33, 34, 43, 108*
480023	MIQ/WL PS		*59, 68*
480025	MIQ/WL PS SET		*59, 68*
480026	AF/Cleaning Air Box		*108*
480027	RM/Cleaning Air Box		*108*
480040	SACIQ-1,5		*12, 18, 23, 27, 33, 34, 43, 49, 55*
480041V	SACIQ-SO	***	*12, 18, 23, 27, 33, 34, 43, 49, 55*
480042	SACIQ-7,0		*12, 18, 23, 27, 33, 34, 43, 49, 55*
480044	SACIQ-15,0		*12, 18, 23, 27, 33, 34, 43, 49, 55*
480045	SACIQ-20,0 SW		*12, 18, 23, 27, 55*
480046	SNCIQ		*59, 68, 72*
480047	SNCIQ/UG		*60, 68, 72*
480048	PMS/IQ		*60, 93*
480050	THS/IQ		*60, 93*
480051	EW/1		*59*
480052	WMS/IQ		*60, 93*
480060	SACIQ-50,0 SW		*13, 18, 23, 27, 55*
480064V	SACIQ-SO SW	***	*12, 18, 23, 27, 55*
480065	SACIQ-Plug		*13, 18, 23, 28, 33, 34, 43, 49, 55*
480066	SACIQ-25,0 SW		*13, 18, 23, 28, 55*
480068	SNCIQ-100		*60, 68, 72*
480069	SNCIQ-200		*60, 68, 72*
480070	SNCIQ-250		*60, 68, 72*
480072	SNCIQ-500		*60*
480075	SNCIQ/UG-250		*60, 68, 72*
480080	VIS FT-1		*34, 43, 99*
480081	VIS FT-1/RS		*34, 43, 99*
480100	WA 700/10		*107*
480100EX	WA 700/10 EX		*85*
480102	WA 700/2		*107*
480102EX	WA 700/2 EX		*85*
480104	ESS-WA 700/ST		*85, 107*
480106	ESS-WA 700/VA		*85, 107*
480108	ADA-WA 1		*107*
480112	ADA-WA 3		*85, 107*
480114	ADA-WA 4		*107*
480116	WA/BV		*107*
480118	WA/Epack		*107*
481034	UV 701 IQ NOx		*33, 54*
481035	UV 705 IQ NOx		*33, 54*
481036	UV 701 IQ SAC		*42, 55*
481038	UV 705 IQ SAC		*42, 55*
481044	NitraVis 701 IQ		*33, 53*
481045	NitraVis 701 IQ TS		*33, 53*
481046	NitraVis 705 IQ		*33, 54*
481047	NitraVis 705 IQ TS		*33, 54*
481048	CarboVis 701 IQ		*42, 54*
481049	CarboVis 701 IQ TS		*42, 54*
481050	CarboVis 705 IQ		*42, 54*
481051	CarboVis 705 IQ TS		*43, 54*
481052	NiCaVis 705 IQ		*33, 43, 54*
481053	NiCaVis 705 IQ TS		*34, 43, 54, 55*
481054	NiCaVis 701 IQ NI		*34, 43, 54, 55*
481055	NiCaVis 705 IQ NI		*34, 43, 54, 55*
481056	NitraVis 701 IQ NI		*34, 54*
481057	NitraVis 705 IQ NI		*34, 54*
481058	NiCaVis 705 IQ SF		*34, 43*
481059	NiCaVis® 705 IQ NI SF		*34, 43*
481071	VIS/CT		*34, 43*
481073	VIS Set/EH		*99*
481074	VIS/CV		*34, 43*
481075	SET/AP		*34, 43*
481077	ST-1		*34, 43*
481078	ST-2		*34, 43*
481079	VIS/CS		*34, 43*
481080	VIS Set-F		*99*
481200	IFL 700 IQ		*49, 55*

*** Sensor variation with different cable length („-SO"): Additional costs depending on cable length.
**** Chain per meter: Additional costs depending on chain length.

Order No.	Model		Pricelist page
481206	IFL-E		*49, 99*
481207	IFL-RM		*49, 99*
503200	PB-W/230V	New	*89*
503201	PB-W/115V	New	*89*
503250	PB-M-S/1	New	*89*
503280	PB-M-L/R24	New	*89*
503304	1/PB-M-L	New	*89*
503311	13/PB	New	*89*
503314	25/PB	New	*89*
503337	Schlauch/10mm/PB/1	New	*89*
503339	SR/180mm/PB	New	*89*
503343	SK/10mm/PB	New	*89*
503363	USB/PB	New	*89*
503370	LG/44/PB-M	New	*89*
503371	LG/66/PB-M	New	*89*
503372	EA/7,5/PB-M	New	*89*
503375	LKEA/PB-M	New	*89*
503389	KFS/PB-W	New	*89*
503420	MK/10m/PB	New	*89*
505123	S/CH		*85, 93*
505124	CH/SO	****	*85, 93*
505544	KI/pH-MIQ/S		*90*
505570	KI/LF-0,9/MIQ		*90*
505571	KI/LF-0,7/MIQ		*90*
505572	KI/LF-0,4/MIQ		*90*
505573	KI/LF-0,1/MIQ		*90*
600007	VisoTurb® 700 IQ F		*27, 72*
600010	VisoTurb® 700 IQ		*27, 53*
600011	VisoTurb® 700 IQ SW		*27, 53*
600012	ViSolid® 700 IQ		*27, 53*
600013	ViSolid® 700 IQ SW		*27, 53*
600014	Standard 1000 FNU		*28*
600015	Standard 4000 FNU		*28*
801254	Cl 298 Pt1000		*74, 116*
810000	PurCon®/230		*87*
810002	SET1/PurCon®		*87*
810005	AF/PurCon®		*87*
810008	PurCon®/115		*87*
810015	AF-N/PurCon		*87*
810065	PCIS-PL5/H		*87*
810066	PCIS-PL10/H		*87*
810067	PCIS-PL20/H		*87*
810117	SW/P102		*87*
820004	OP 210/ MB 1		*110*
820005	OP 210/ MB 2		*110*
820006	OP 210/ MB 3		*110*
820007	ON 210		*35*
820008	OA 110		*34*
820009	ON 510		*36*
820010	OS 210		*35*
820011	OP 510		*110*
820065	FT/PC		*87*
820066	LSet/PC		*87*
820067	SL/SET/PC		*87*
820068	FT/PCIS-2		*87*
820069	SLSet/PCIS		*87*
821004	TC/ÜB 1		*111*
821017	BEH/ T 1,5		*35, 36, 110*
821019	BEH/ T 10		*35, 36, 110*
821025	MWSet/A111		*35*

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821055	BSet/A111		*35*
821057	BSet/ N511		*36*
821058	BSet/P211		*110*
821059	BSet/P511		*110*
821068	KB/P511		*110*
821071	R/ ADD/ TC		*110*
821075	R/ A111		*35, 36, 110*
821085	R/ N511		*36*
821091	R/ P211		*110*
821096	RD/P511		*110*
821097	RC/P511		*110*
821098	RB/P511		*110*
821099	RA/P511		*110*
821100	S/ AI - A111		*35*
821101	S/ AII - A111		*35*
821102	S/ BI - A111		*35*
821103	S/ BII - A111		*35*
821112	S/ AI - N 211		*35*
821113	SSet/ N211		*35*
821117	S/ B - N511		*36*
821121	S/ BI - P211		*110*
821122	S/ BII - P211		*110*
821123	S/ BIII - P211		*110*
821138	RSet/A111-1		*35*
821140	RSet/ A111-2		*35*
821143	RSet/ N211		*35*
821156	C/TCM1		*35, 36, 110, 111*
821160	C/ A111		*35*
821163	C/ N211		*35*
821165	C/N211/FE		*35*
821175	EL/ TC		*36, 110, 111*
821195	Wpack/ P211		*110*
821197	Wpack/ A111		*35*
821199	Wpack/ N211		*35*
821201	Wpack/P511		*111*
821203	Wpack/ N511		*36*
821210	NH500/TC		*35*
821212	MC/NH500/TC		*35*
821220	ELY/NH		*35*
821939	FM/PC	New	*46*
821940	Filter/PC		*46, 111*
821941	FM-Case/PC		*46, 111*
821954	RL 20		*111*
821955	RL 115-20		*111*
821957	SL 20		*111*
821959	SL 115-20		*111*
821960	SL 230-20		*111*
821964	RL 10		*111*
821965	RL 115-10		*111*
821966	RL 230-10		*111*
821968	FM-B		*46, 111*
821969	Filter-REP		*45, 111*
821970	ST-BT		*111*
821971	ST 0.0		*111*
821972	Filter		*111*
821974	RL 2		*111*
821975	RL 115-2		*111*
821976	RL 230-2		*111*
821977	SL 10		*111*
821978	SL 5		*111*

Order No.	Model		Pricelist page
821979	SL 115-10		*111*
821980	SL 230-10		*111*
821981	SL 115-5		*111*
821982	SL 230-5		*111*
821983	FM-Adapter		*46, 111*
821984	Filter-CL		*46, 111*
821985	M-EXT 1.5		*46, 111*
821986	M 1.5		*46, 111*
821987	FM		*111*
821988	RM		*46, 111*
821989	WM		*46, 111*
821990	LED		*111*
821991	SM		*46, 111*
821992B	T SET B		*111*
821993	PT		*111*
821994	PM		*111*
821995	ST 20.0		*111*
821996	ST 8.0		*111*
821997	ST 1.6		*111*
821998	CL 1.0		*111*
821999	RE 2.5		*111*
822000	TM	New	*47*
822201	SH-5	New	*46*
822202	SH-10	New	*46*
822203	SH-15	New	*46*
822204	SH-20	New	*46*
822211	SH 120-5	New	*46*
822212	SH 120-10	New	*46*
822213	SH 120-15	New	*46*
822214	SH 120-20	New	*46*
822221	SH 240-5	New	*46*
822222	SH 240-10	New	*46*
822223	SH 240-15	New	*46*
822224	SH 240-20	New	*46*
822228	RH-0.5	New	*46*
822229	RH-1	New	*46*
822230	RH-2	New	*46*
822231	RH-5	New	*46*
822232	RH-10	New	*46*
822233	RH-15	New	*46*
822234	RH-20	New	*46*
822238	RH 120-0.5	New	*46*
822239	RH 120-1	New	*46*
822240	RH 120-2	New	*46*
822241	RH 120-5	New	*46*
822242	RH 120-10	New	*46*
822243	RH 120-15	New	*46*
822244	RH 120-20	New	*46*
822248	RH 240-0.5	New	*46*
822249	RH 240-1	New	*46*
822250	RH 240-2	New	*46*
822251	RH 240-5	New	*46*
822252	RH 240-10	New	*46*
822253	RH 240-15	New	*46*
822254	RH 240-20	New	*46*
825510	Alyza IQ PO4-110	New	*45*
825511	Alyza IQ PO4-111	New	*45*
825512	Alyza IQ PO4-112	New	*45*
825520	Alyza IQ PO4-120	New	*45*
825521	Alyza IQ PO4-121	New	*45*

Order No.	Model		Pricelist page
825522	Alyza IQ PO4-122	New	*45*
827000	MPV-1	New	*45*
827101	TubingSet PO4	New	*45*
827170	Syringe Pump Set	New	*45*
827180	Overflow Vessel	New	*47*
827185	Filtration Pump	New	*47*
827186	Check valve	New	*47*
827187	Waste Funnel Set	New	*47*
827190	Conversion kit PO4 MB1	New	*47*
827191	Conversion kit PO4 MB2	New	*47*
827520	R-PO4/1-1A	New	*46*
827521	R-PO4/1-1B	New	*46*
827522	R-PO4/1-2A	New	*46*
827523	R-PO4/1-2B	New	*46*
827526	S-PO4/1-0.0	New	*46*
827527	S-PO4/1-1.0	New	*46*
827528	S-PO4/1-10.0	New	*46*
827529	S-PO4/1-40.0	New	*46*
827533	C-PO4/1-1	New	*46*
827550	R-Set PO4/1-1	New	*46*
827551	R-Set PO4/1-2	New	*46*
827555	SC-Set PO4/1-1_0/1	New	*46*
827556	SC-Set PO4/1-1_0/10	New	*46*
827557	SC-Set PO4/1-2_10/40	New	*46*
830860	VB 105		*87*
850007	P 105		*87*
850008	FGT 626-2 = P101		*87*
850010	FGT 615-2 = P102/1		*87*
850018	PZ 30 Förderschlauch		*87*
850110	BS-P102		*87*
850115	ADA-PS		*87*
900107	CH		*33, 108*
900111	CH/Epack		*108*
902888	ADA/D-SUB		*59, 68*
902890	ADA/E		*68*
BA43108d	BA/TC/d		*111*
BA43108e	BA/TC/e		*111*
BA43109d	BA/P211/d		*110, 111*
BA43109e	BA/P211/e		*110, 111*
BA43110d	BA/N211/d		*35*
BA43110e	BA/N211/e		*35*
BA43111d	BA/A111/d		*35*
BA43111e	BA/A111/e		*35*
BA43112d	BA/N511/d		*36*
BA43112e	BA/N511/e		*36*
BA43120d	BA/S211/d		*35*
BA43120e	BA/S211/e		*35*
BA43121d	BA/511/d		*111*
BA43121e	BA/511/e		*111*

IQ Sensor Net – all measurement parameters at a glance

Sensors / Parameter	TriOxmatic® 700 IQ (F)	FDO® 700/701 IQ (F)	SensoLyt® 700 IQ (F)	TetraCon® 700 IQ (F)	VisoTurb® 700 IQ (F)	ViSolid® 700 IQ	AmmoLyt® 700 IQ	NitraLyt® 700 IQ	VARiON® 700 IQ	NitraVis® 701/705 IQ (TS)	NitraVis® 701/705 IQ NI	CarboVis® 701/705 IQ (TS)	NiCaVis® 705 IQ (TS/SF)	NiCaVis® 701/705 IQ (NI)	UV 701/705 IQ SAC	UV 701/705 IQ NOx	IFL 700 IQ	Alyza IQ PO_4
Usable with Systems 2020 and 282/284																		
Usable with System 181																		
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 ✖	✖✖
Parameter																		
Temperature																		
Dissolved Oxygen (electrochemical)																		
Dissolved Oxygen (optical)																		
pH																		
ORP																		
Conductivity																		
Salinity																		
TDS																		
Turbidity (optical)																		
TSS (optical)																		
Ammonium (ion-selective)																		
Nitrate (ion-selective)																		
Nitrate (optical/spectral)																†		
Nitrite (optical/spectral)																		
Potassium (ion-selective)																		
Chloride (ion-selective)																		
COD (optical/spectral)																		
BOD (optical/spectral)																		
TOC (optical/spectral)																		
DOC (optical/spectral)																		
SAC (optical/spectral)																		
UVT (optical/spectral)																		
Sludge Level																		
Ortho-Phosphate (optical/wet chemical)																		

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

✖✖ *Power supply: Alyza IQ PO_4 provides 10 W*

Only relevant for the respective sensor with fixed cable.

NO_2-N is included in the measurement result

Dissolved Oxygen

Parameter \ Sensors	**TriOxmatic® 700 IQ (F)**	**FDO® 700/701 IQ (F)**	SensoLyt® 700 IQ (F)	TetraCon® 700 IQ (F)	VisoTurb® 700 IQ (F)	ViSolid® 700 IQ	AmmoLyt® 700 IQ	NitraLyt® 700 IQ	VARiON® 700 IQ	NitraVis® 701/705 IQ (TS)	NitraVis® 701/705 IQ NI	CarboVis® 701/705 IQ (TS)	NiCaVis® 705 IQ (TS/SF)	NiCaVis® 701/705 IQ (NI)	UV 701/705 IQ SAC	UV 701/705 IQ NOx	IFL 700 IQ	Alyza IQ PO_4
Usable with Systems 2020 and 282/284																		
Usable with System 181																		
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 ×	××
Parameter																		
Temperature																		
Dissolved Oxygen (electrochemical)																		
Dissolved 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 PO_4 provides 10 W.*

Only relevant for the respective sensor with fixed cable.

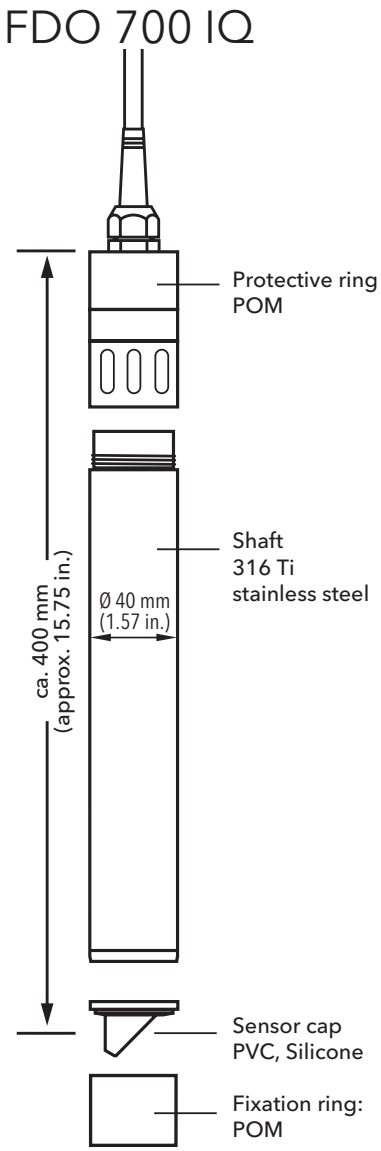
Analog Devices can be found in chapters Analog measurement.

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 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
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
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® 701and protective cap MSK FDO®, without connection cable (SACIQ order separately)	201653
FDO® 700 IQ F	Digital calibration free optical D.O. sensor (universal use). Optimized for monitoring/ controlling the O2 input in wastewater treatment plants, for use with DIQ/S 181(/24 V). Factory calibrated system composed of sensor FDO® 700 IQ F and membrane cap SC-FDO® 700, with fixed cable. Connection of a SACIQ-cable is not possible.	201656
FDO® 701 IQ F	Digital calibration free optical D.O. sensor with fast response time (universal use). Optimized for monitoring/controlling the O2 input in wastewater treatment plants, for use with DIQ/S 181(/24 V). Factory calibrated system composed of sensor FDO® 700 IQ F and membrane cap SC-FDO® 700, with fixed cable. Connection of a SACIQ-cable is not possible.	201658
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

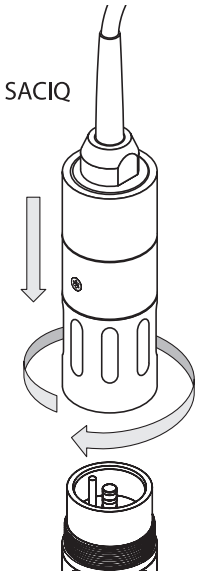
Model		Description	Order No.
Accessories for FDO® 700 IQ			
SC-FDO® 700		Universal sensor cap for FDO® 700 IQ/700 IQ SW	201654
SC-FDO® 701		Fast response time sensor cap for FDO® IQ 701/IQ 701 SW	201655
MSK FDO		Membrane protective cap, provides protection against fishes and rock slide etc. for FDO® 70X IQ and FDO® 70X IQ SW series.	205253
MSK FDO® CS		Cleaning set for FDO® 70X IQ SW and FDO® 70X IQ in combination with MSK FDO®	205254
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
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
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
TriOxmatic® 700 IQ F		Universal digital D.O. sensor for monitoring/controlling O2 input in wastewater treatment plants for use with DIQ/S 181(/24 V). 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), with fixed cable. Connection of a SACIQ-cable is not possible.	201643
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
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
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
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
WP 600/2		Exchange membrane heads (2 pcs) for D.O. sensor TriOxmatic® 600/690/ 700 (IQ/IN) series	202850
WP 25i/2		Exchange membrane heads (2 pcs) for D.O. sensor TriOxmatic® 601/701 (IQ)/702 (IQ) series	202852
SF 300		Cathode cleaner (abrasive foil) for WTW oxygen sensors of TriOxmatic® and CellOx® series	203680
RL-AG/Oxi		Cleaning solution for the silver anode of DO sensors of TriOxmatic® series, 1 bottle with 50 ml.	205200
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
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
Cables digital IQ oyxgen sensors			
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
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
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

**** Sensor variation with different cable length („-SO"): Additional costs depending on cable length.*

Model	Description	Order No.
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
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
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
SACIQ-Plug	Screwable plug for all SACIQ sensor adapter cables for IQ sensors	480065
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



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 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
	1. Measuring range 2. Response time t_{90} 3. SensCheck Function	**IQ Sensor Net** **Systems 181**
TriOxmatic® 700 IQ F** 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
FDO 700 IQ F** 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 701 IQ F** 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

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

*** F: Sensor with fixed cable connection*

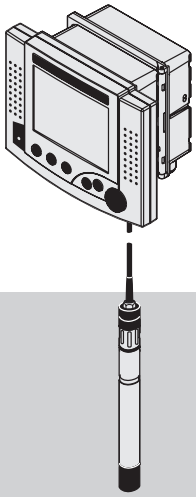
*Detailed technical data can be found in the brochure "**Data sheets process instrumentation**" (999266US); also available on our homepage www.xylemanalytics.com/en under Customer Support/Downloads/Datasheets.*

System Configurations 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)

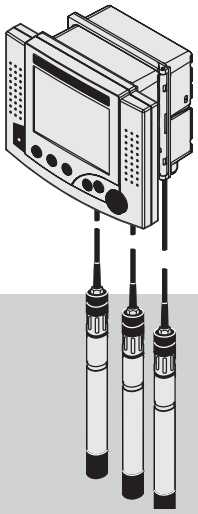
additionally:

- 1 SACIQ (sensor cable)
- 1 IQ sensor

Monitor
with 3 analog outputs and 3 relays, universally employable 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)

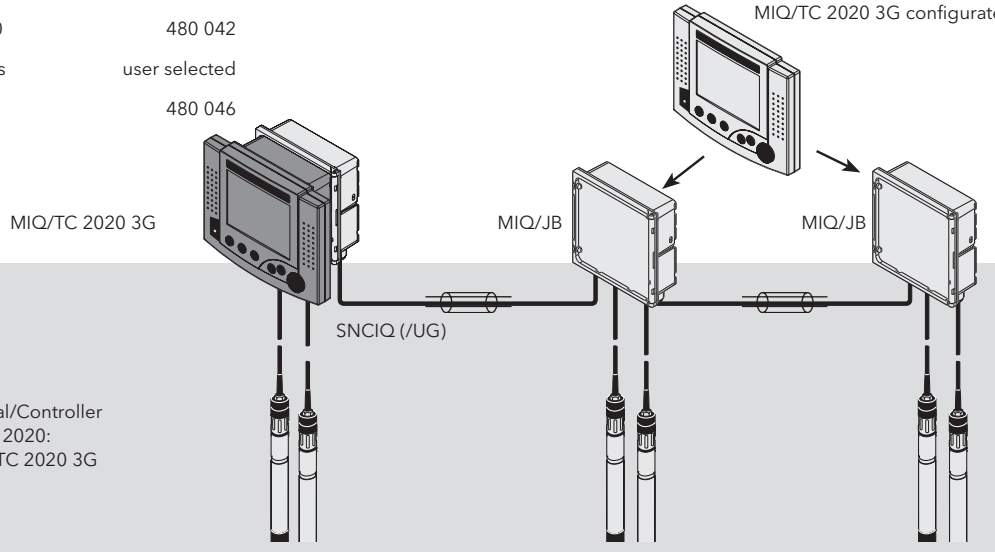
additionally:

- 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:

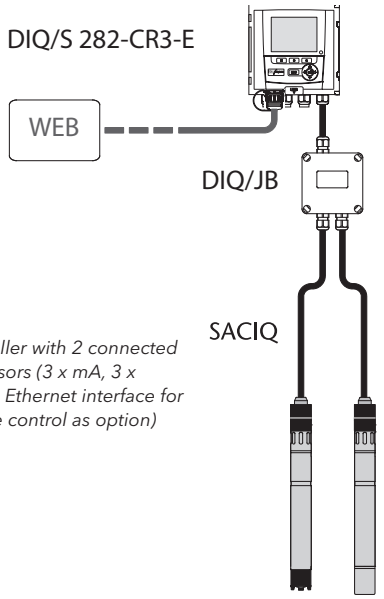
- MIQ/TC 2020 3G

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 282/284

Example 1

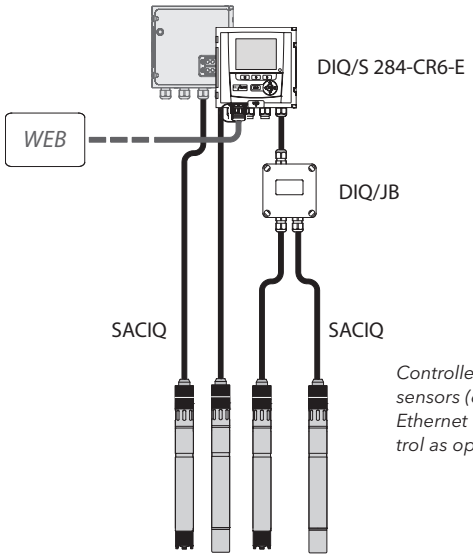
Example with 2 IQ sensors	**Order no.**
DIQ/S 282-CR3-E	472 113
2 x SACIQ-7,0	480 042
DIQ/JB	472 005
2 x IQ sensors	user selected



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.

pH/ORP

Parameter \ Sensors	TriOxmatic® 700 IQ (F)	FDO® 700/701 IQ (F)	**SensoLyt® 700 IQ (F)**	TetraCon® 700 IQ (F)	VisoTurb® 700 IQ (F)	ViSolid® 700 IQ	AmmoLyt® 700 IQ	NitraLyt® 700 IQ	VARiON® 700 IQ	NitraVis® 701/705 IQ (TS)	NitraVis® 701/705 IQ NI	CarboVis® 701/705 IQ (TS)	NiCaVis® 705 IQ (TS/SF)	NiCaVis® 701/705 IQ (NI)	UV 701/705 IQ SAC	UV 701/705 IQ NOx	IFL 700 IQ	Alyza IQ PO_4
Usable with Systems 2020 and 282/284																		
Usable with System 181																		
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 ×	××
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 PO_4 provides 10 W.*
Only relevant for the respective sensor with fixed cable.

Analog Devices can be found in chapters Analog measurement.

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

Model		Description	Order No.
pH/ORP Combination Electrodes			
Sensolyt® TFA	*New*	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 0 … 14 pH	109114
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
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
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
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
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

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
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
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
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
SensoLyt® 700 IQ F		Robust digital pH/ORP sensor for pH/ORP electrodes SensoLyt® SEA/SEA-HP/DWA/ ECA/PtA for use with the DIQ/S 181(/24 V). With built-in pre-amplifier and temperature sensor (NTC), with SensCheck function, with fixed cable. Connection of a SACIQ-cable is not possible.	109177
SensoLyt® 700-SK		Protecting cage (protection against strikes/ solids) for SensoLyt® pH/ORP electrodes within SensoLyt® sensors	109194
Accessories pH/ORP			
TEP 4		Technical buffer solution, 1 bottle with 1 l: pH 4.01	108700
TEP 7		Technical buffer solution, 1 bottle with 1 l: pH 7.00	108702
TEP 10 Trace		Technical buffer solution, 1 bottle with 1 l: pH 10.01	108703
RH 28		ORP buffer solution pH 7, UH = 427 mV (CH), 1 bottle with 250 ml.	109740
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
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
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
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
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
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
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
SACIQ-Plug		Screwable plug for all SACIQ sensor adapter cables for IQ sensors	480065
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

*** *Sensor variation with different cable length („-SO"): Additional costs depending on cable length.*

Configuration Guide Digital pH/ORP Measurement

Digital			**IQ Sensor Net** **Systems 2020 and 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)
	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)
			IQ Sensor Net **System 181**
	SensoLyt® 700 IQ F** 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))*
*** F: sensor with fixed cable connection*

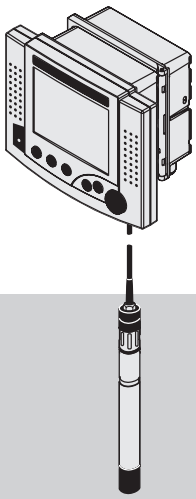
TD *Detailed technical data can be found in the brochure "**Data sheets process instrumentation**" (999266US); also available on our homepage www.xylemanalytics.com/en under Customer Support/Downloads/Datasheets.*

System Configurations 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:

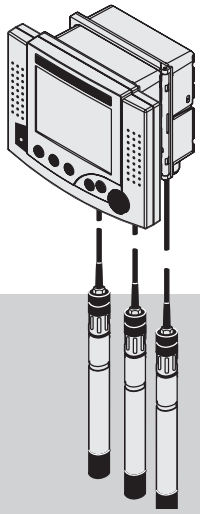
- MIQ/TC 2020 3G (Terminal/Controller)
- MIQ/CR3 (3 x mA, 3 x relays)
- MIQ/PS (power supply)

additionally:
- 1 SACIQ (sensor cable)
- 1 IQ sensor

Monitor
with 3 analog outputs and 3 relays, universally employable 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:

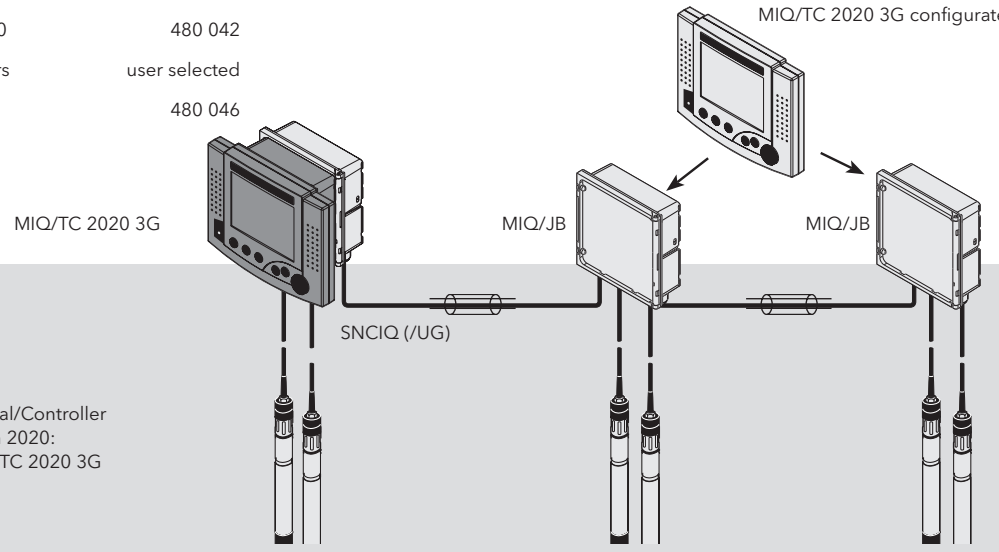
- MIQ/TC 2020 3G (Terminal/Controller)
- MIQ/CR3 (3 x mA, 3 x Relays)
- MIQ/PS (power supply)

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



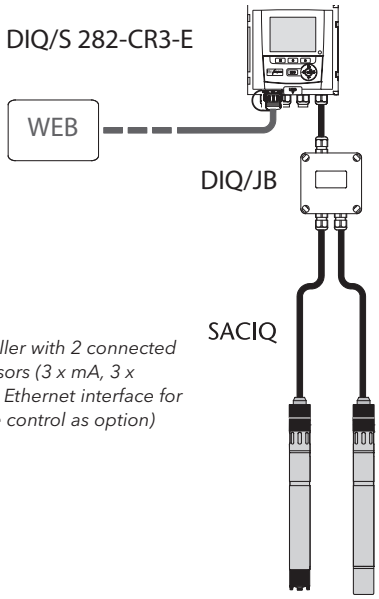
Terminal/Controller
System 2020:
- MIQ/TC 2020 3G

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 282/284

Example 1

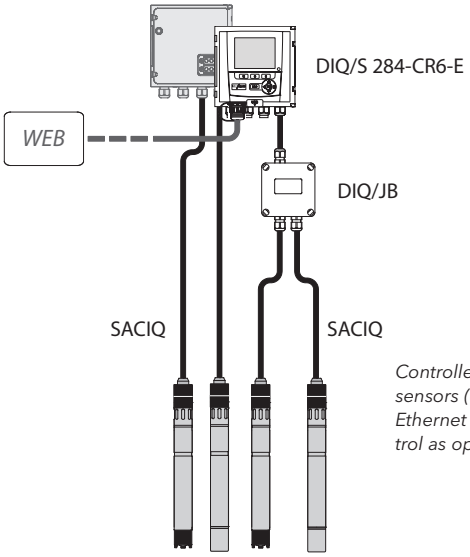
Example with 2 IQ sensors	Order no.
DIQ/S 282-CR3-E	472 113
2 x SACIQ-7,0	480 042
DIQ/JB	472 005
2 x IQ sensors	user selected



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.

Conductivity

Parameter \ Sensors	TriOxmatic® 700 IQ (F)	FDO® 700/701 IQ (F)	SensoLyt® 700 IQ (F)	**TetraCon® 700 IQ (F)**	VisoTurb® 700 IQ (F)	ViSolid® 700 IQ	AmmoLyt® 700 IQ	NitraLyt® 700 IQ	VARiON® 700 IQ	NitraVis® 701/705 IQ (TS)	NitraVis® 701/705 IQ NI	CarboVis® 701/705 IQ (TS)	NiCaVis® 705 IQ (TS/SF)	NiCaVis® 701/705 IQ (NI)	UV 701/705 IQ SAC	UV 701/705 IQ NOx	IFL 700 IQ	Alyza IQ PO_4
Usable with Systems 2020 and 282/284																		
Usable with System 181																		
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 ×	××
Parameter																		
Temperature																		
Conductivity																		
Salinity																		
TDS																		

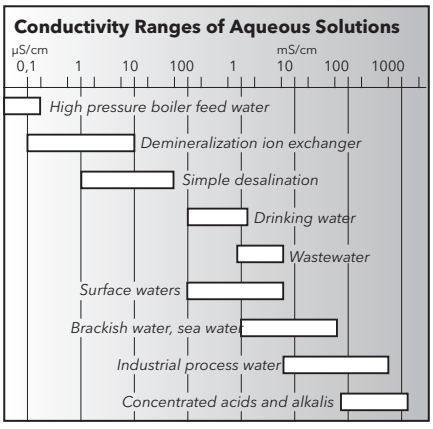
× *When operating with System 282/284, the average power consumption can be used. Details see operating manual System 282/284.*
×× *Power supply: Alyza IQ PO_4 provides 10 W.*
Only relevant for the respective sensor with fixed cable.

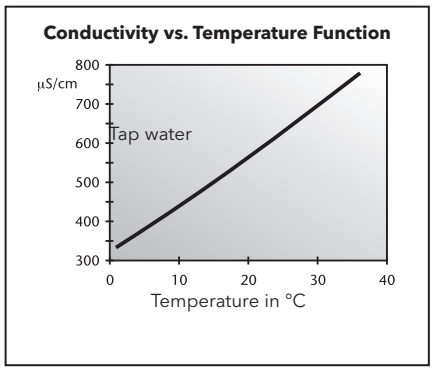
Analog Devices can be found in chapters Analog measurement.

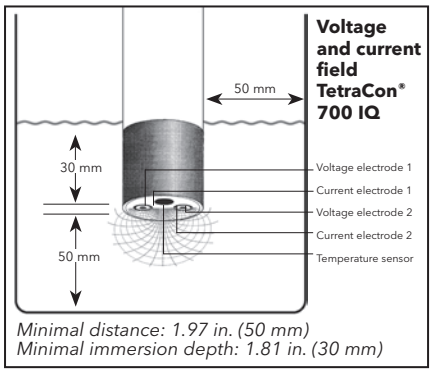
Information on conductivity devices for hazardous areas (EX-zone) can be found in the chapter ATEX.

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

Conductivity Measurement with TetraCon® 700 IQ







Minimal distance: 1.97 in. (50 mm)
Minimal immersion depth: 1.81 in. (30 mm)

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
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
TetraCon® 700 IQ F		Digital 4 electrode conductivity cell, especially for heavily polluted wastewater, for use with the DIQ/S 181(/24 V). With integrated temperature sensor, with fixed cable. Connection of a SACIQ-cable is not possible.	302507
Accessories Conductivity			
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
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
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
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
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
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
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
SACIQ-Plug		Screwable plug for all SACIQ sensor adapter cables for IQ sensors	480065
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

*** *Sensor variation with different cable length („-SO"); Additional costs depending on cable length.*

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 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
		1. Measuring range 2. Cell constant 3. Probe type 4. Temperature compensation	5. Temperature range 6. Pressure range 7. Protection rating	**IQ Sensor Net** **System 181**
	TetraCon® 700 IQ F**	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))*

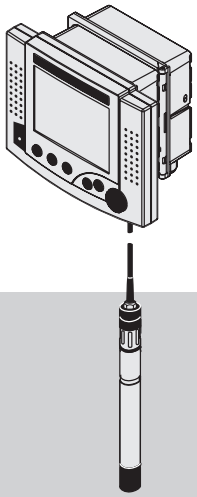
*** F: sensor with fixed cable connection*

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:

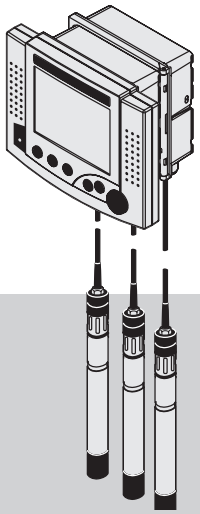
- MIQ/TC 2020 3G (Terminal/Controller)
- MIQ/CR3 (3 x mA, 3 x relays)
- MIQ/PS (power supply)

additionally:
- 1 SACIQ (sensor cable)
- 1 IQ sensor

Monitor
with 3 analog outputs and 3 relays, universally employable 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:

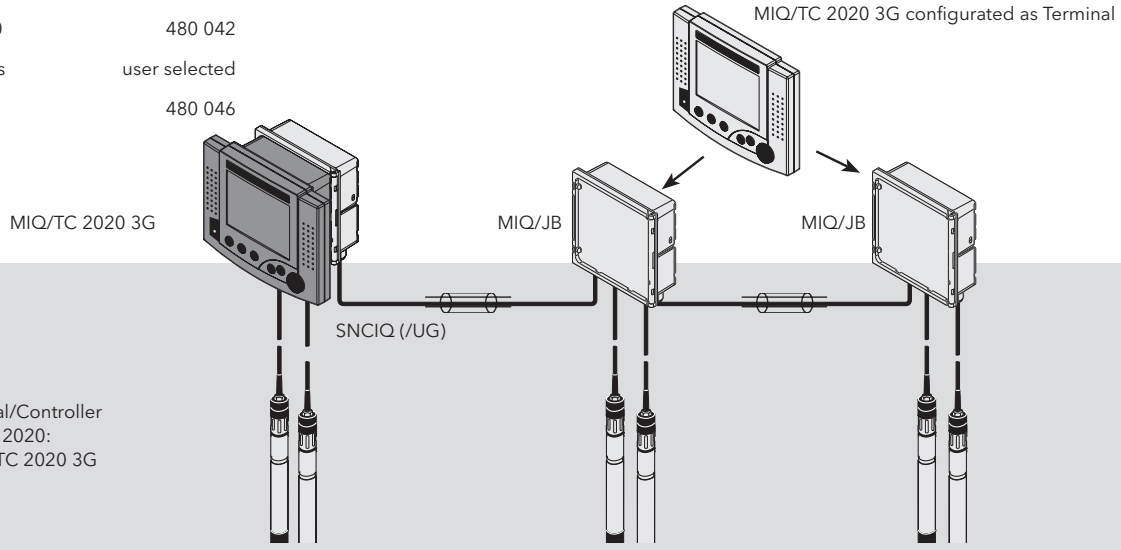
- MIQ/TC 2020 3G (Terminal/Controller)
- MIQ/CR3 (3 x mA, 3 x Relays)
- MIQ/PS (power supply)

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



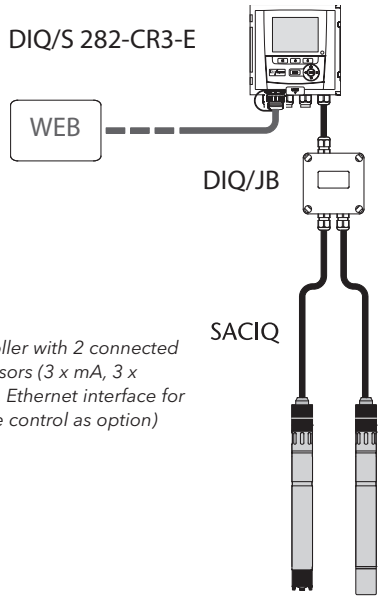
Terminal/Controller
System 2020:
- MIQ/TC 2020 3G

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 282/284

Example 1

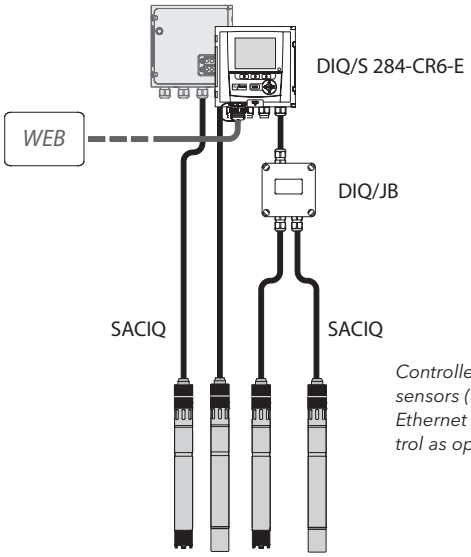
Example with 2 IQ sensors	Order no.
DIQ/S 282-CR3-E	472 113
2 x SACIQ-7,0	480 042
DIQ/JB	472 005
2 x IQ sensors	user selected



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.

Turbidity/Suspended Solids

Parameter \ Sensors	TriOxmatic® 700 IQ (F)	FDO® 700/701 IQ (F)	SensoLyt® 700 IQ (F)	TetraCon® 700 IQ (F)	**VisoTurb® 700 IQ (F)**	**ViSolid® 700 IQ**	AmmoLyt® 700 IQ	NitraLyt® 700 IQ	VARiON® 700 IQ	NitraVis® 701/705 IQ (TS)	NitraVis® 701/705 IQ NI	CarboVis® 701/705 IQ (TS)	NiCaVis® 705 IQ (TS/SF)	NiCaVis® 701/705 IQ (NI)	UV 701/705 IQ SAC	UV 701/705 IQ NOx	IFL 700 IQ	Alyza IQ PO_4
Usable with Systems 2020 and 282/284																		
Usable with System 181																		
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 ×	××
Parameter																		
Turbidity (optical)																		
TSS (optical)																		

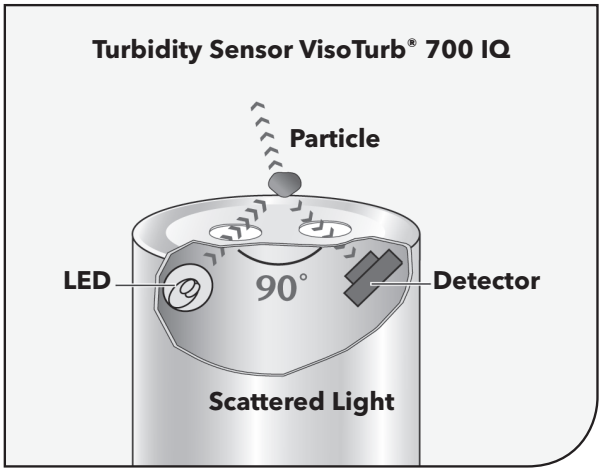
× *When operating with System 282/284, the average power consumption can be used. Details see operating manual System 282/284.*
×× *Power supply: Alyza IQ PO_4 provides 10 W*
Only relevant for the respective sensor with fixed cable.

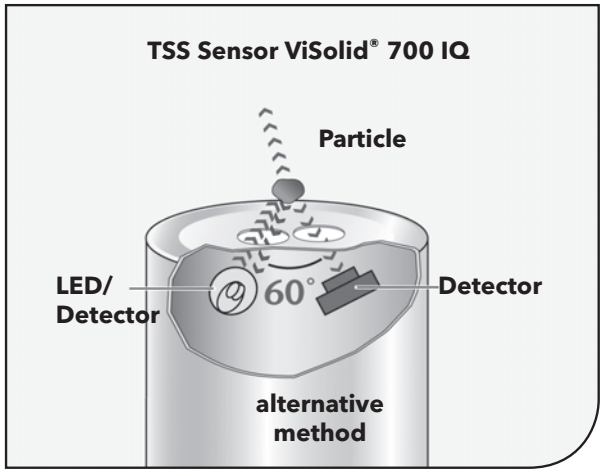
Model		Description	Order No.
Turbidity/Suspended Solids Sensors			
VisoTurb® 700 IQ F		Digital turbidity sensor for drinking water/water and wastewater (ultrasonic cleaning) for use with the DIQ/S 181(/24 V), with fixed cable. Connection of a SACIQ-cable is not possible.	600007
VisoTurb® 700 IQ		Digital 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
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
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
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
Turbidity/Suspended Solids Accessories			
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
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
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
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
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
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
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

*** *Sensor variation with different cable length („-SO"); Additional costs depending on cable length.*

Model	Description	Order No.
SACIQ-Plug	Screwable plug for all SACIQ sensor adapter cables for IQ sensors	480065
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
Standard 1000 FNU	Standard with 1000 FNU for VisoTurb® 700 IQ.	600014
Standard 4000 FNU	Standard with 4000 FNU for ViSolid® 700 IQ.	600015

*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.*



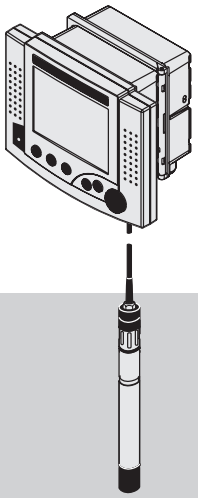


System Configurations Digital Systems
IQ Sensor Net System 2020

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)

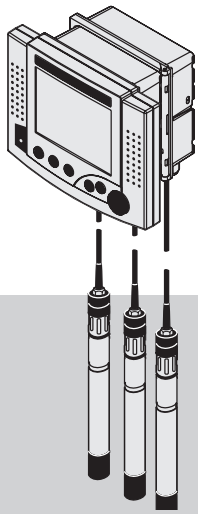
additionally:

- 1 SACIQ (sensor cable)
- 1 IQ sensor

Monitor
with 3 analog outputs and 3 relays, universally employable 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)

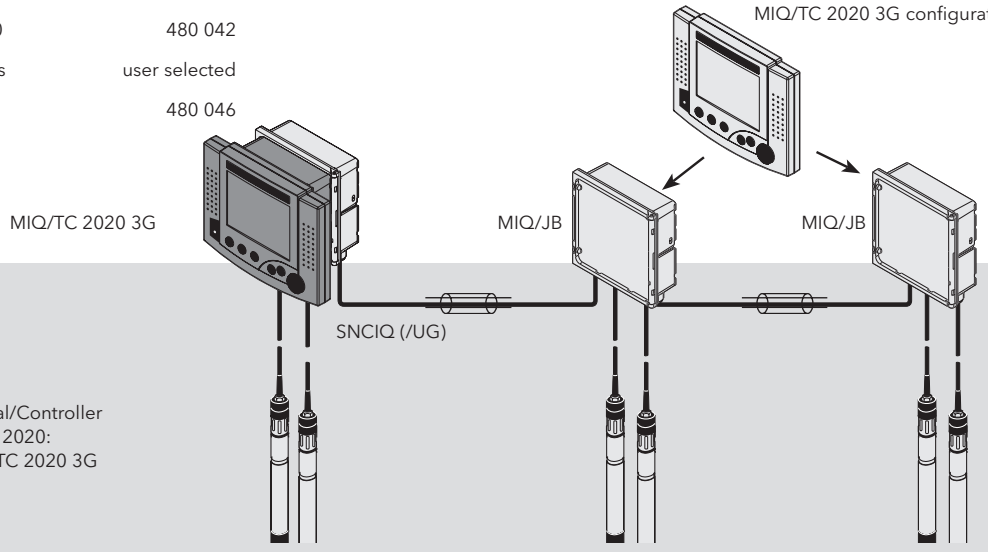
additionally:

- 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:

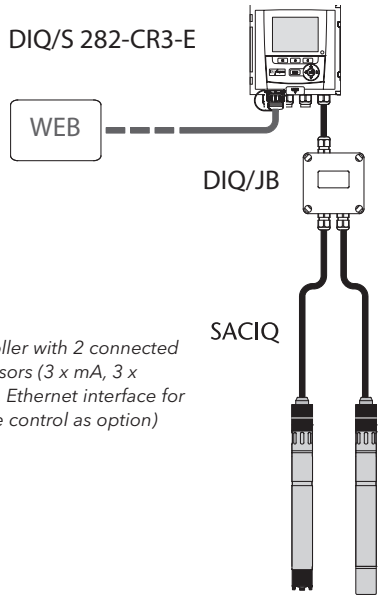
- MIQ/TC 2020 3G

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 282/284

Example 1

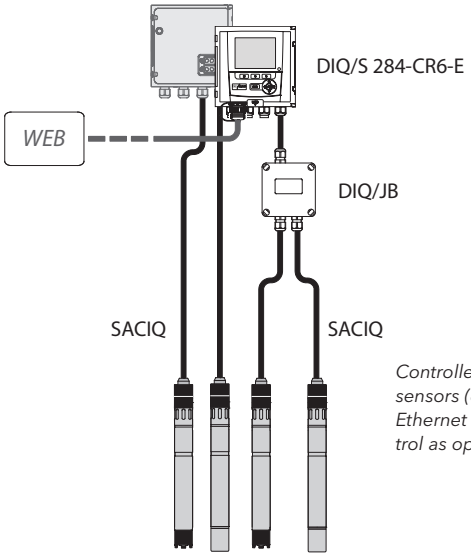
Example with 2 IQ sensors	Order no.
DIQ/S 282-CR3-E	472 113
2 x SACIQ-7,0	480 042
DIQ/JB	472 005
2 x IQ sensors	user selected



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.

Nitrogen

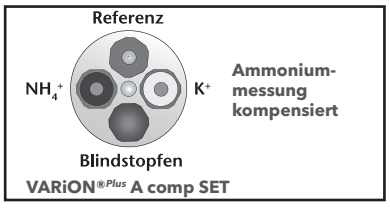
Sensors / Parameter	TriOxmatic® 700 IQ (F)	FDO® 700/701 IQ (F)	SensoLyt® 700 IQ (F)	TetraCon® 700 IQ (F)	ViSoTurb® 700 IQ (F)	ViSolid® 700 IQ	**AmmoLyt® 700 IQ**	**NitraLyt® 700 IQ**	**VARiON® 700 IQ**	**NitraVis® 701/705 IQ (TS)**	**NitraVis® 701/705 IQ NI**	CarboVis® 701/705 IQ (TS)	**NiCaVis® 705 IQ (TS/SF)**	**NiCaVis® 701/705 IQ (NI)**	UV 701/705 IQ SAC	**UV 701/705 IQ NOx**	IFL 700 IQ	Alyza IQ PO_4
Usable with Systems 2020 and 282/284																		
Usable with System 181																		
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 ××	
Parameter																		
Temperature																		
TSS (optical)																		
Ammonium (ion-selective)																		
Nitrate (ion-selective)																+		
Nitrate (optical/spectral)																		
Nitrite (optical/spectral)																		
Potassium (ion-selective)																		
Chloride (ion-selective)																		

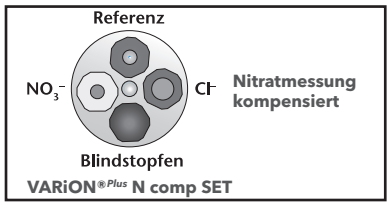
× *When operating with System 282/284, the average power consumption can be used. Details see operating manual System 282/284.*
×× *Power supply: Alyza IQ PO_4 provides 10 W.*
Only relevant for the respective sensor with fixed cable.
NO_2-N is included in the measurement result

*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.*

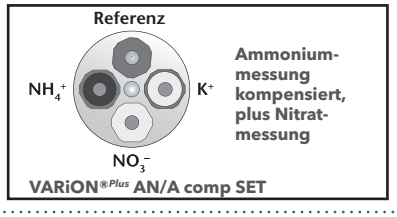
VARiON® 700 IQ Bestückungsvarianten:

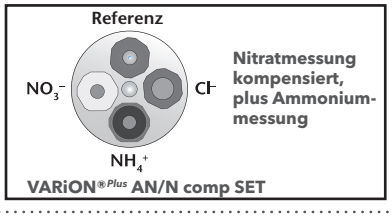
NH_4^+ oder NO_3^-





Doppelsensoren NH_4^+ & 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 electrodeVARiON®Plus K (potassium). Please order SACIQ cable separately.	107060
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
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
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
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
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
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, protective device and calibration vessel. Please order electrodes separately.	107040
VARiON® Ref	Reference electrode for mounting into sensors VARiON®Plus 700 IQ, NitraLyt® Plus, AmmoLyt® Plus	107042
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
VARiON®Plus NO3	Nitrate electrode for VARiON®Plus 700 IQ and NitraLyt®Plus/ NitraLyt®, Measuring range: 0.1 - 1000 mg/l NO3-N	107045
VARiON®Plus K	Potassium electrode for VARiON®Plus 700 IQ and for AmmoLyt®Plus, measuring range: 1 - 1000 mg/l K+	107046
VARiON®Plus Cl	Chloride electrode for VARiON®Plus 700 IQ and for NitraLyt® Plus, measuring range: 1-1000 mg/l Cl-	107047
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
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
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
AmmoLyt®Plus 700 IQ separate deliveries		
VARiON® Ref	Reference electrode for mounting into sensors VARiON®Plus 700 IQ, NitraLyt® Plus, AmmoLyt® Plus	107042
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
VARiON®Plus K	Potassium electrode for VARiON®Plus 700 IQ and for AmmoLyt®Plus, measuring range: 1 - 1000 mg/l K+	107046
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
Nitrate ISE		
NitraLyt®Plus sets und standard solutions		

Model		Description	Order No.
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
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
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
NitraLyt®Plus 700 IQ separate deliveries			
VARiON® Ref		Reference electrode for mounting into sensors VARiON®Plus 700 IQ, NitraLyt® Plus, AmmoLyt® Plus	107042
VARiON®Plus NO3		Nitrate electrode for VARiON®Plus 700 IQ and NitraLyt®Plus/ NitraLyt®, Measuring range: 0.1 - 1000 mg/l NO3-N	107045
VARiON®Plus Cl		Chloride electrode for VARiON®Plus 700 IQ and for NitraLyt® Plus, measuring range: 1-1000 mg/l Cl-	107047
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
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
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
DIQ/CHV		Dual IQ/Cleaning Head Valve for automatic air cleaning controlled by a relay, for system 282/284, (relay and compressed air supply external)	472007
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
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
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
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
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
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
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
SACIQ-Plug		Screwable plug for all SACIQ sensor adapter cables for IQ sensors	480065
CH		Cleaning head for on-line sensors with 40 mm diameter. Supplied with 15 m (49 ft) compressed air tube.	900107
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
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
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
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

*** Sensor variation with different cable length („-SO"): Additional costs depending on cable length.

Model		Description	Order No.
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
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
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
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
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
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
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
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
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
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
Accessories Spectral Sensors (Nitrogen)			
DIQ/CHV		Dual IQ/Cleaning Head Valve for automatic air cleaning controlled by a relay, for system 282/284, (relay and compressed air supply external)	472007
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
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
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
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
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
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
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
SACIQ-Plug		Screwable plug for all SACIQ sensor adapter cables for IQ sensors	480065
VIS FT-1		Flow-through measurimg cell for spectral UV and UV-VIS sensors, for operation with automatic compressed air cleaning	480080

*** *Sensor variation with different cable length („-SO"): Additional costs depending on cable length.*

Model	Description	Order No.
VIS FT-1/RS	Spare part set for flow-thru measuring cell VIS FT-1	480081
VIS/CT	Universal cleaning tool for spectral sensors.	481071
VIS/CV	Multifunctional slide for spectral sensors.	481074
SET/AP	Air pressure cleaning set for spectral sensors: Supplied with 15 m (49 ft) tubing, fittings, without further modules and components.	481075
ST-1	Standard with low concentration for 5 mm spectral sensors.	481077
ST-2	Standard with high concentration for 1 mm specrtal sensors.	481078
VIS/CS	Universal cleaning tool set for cleaning of measuring windows of spectral sensors with cleaning solutions.	481079
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
OA 110	Separate TresCon® analyzer module for on-line measurement of ammonium, for extension of a TresCon® system, incl. Manual. Supplied with reagents for 4 month operation, ammonium electrode (NH500/TC), annual need tubing (Epack/P211), overflow vessel (TC/ÜB1), 10 l container (BEH/T10) for preparation of reagent	820008
BEH/ T 1,5	1.5 l wide-necked bottle (with screw cap and labels).	821017
BEH/ T 10	10 l container (with screw cap and labels).	821019
MWSet/A111	Container set for ammonium seawater chemicals. Supplied with 10 l container, 2 x 1,5 l bottles incl. Screw caps and seawater labels.	821025
BSet/A111	Container set for ammonium module OA 110, TresCon® A111 and TresCon® Uno TCU/A111.	821055
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
S/ AI - A111	Standard solution A-I (1 mg/l NH4-N), 1.5 l.	821100
S/ AII - A111	Standard solution A-II (5 mg/l NH4-N), 1.5 l.	821101
S/ BI - A111	Standard solution B-I (10 mg/l NH4-N), 1.5 l.	821102
S/ BII - A111	Standard solution B-II (50 mg/l NH4-N), 1.5 l.	821103
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
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
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
C/ A111	1.5 l cleaning solution for ammonium analyzer module OA 110, TresCon® A111 and TresCon® Uno /A111; 10% citric acid.	821160
Wpack/ A111	Set of maintenance kit (fittings and spare tubes) for TresCon® ammonium analyzer module OA 110, TresCon® A111 and TresCon® Uno/A111.	821197
NH500/TC	Ammonium electrode, incl. 3 exchange membrane heads and 50 ml electrolyte solution for module OA 110.	821210
MC/NH500/TC	Exchange membrane heads for ammonium electrode, included: 3 exchange membrane caps.	821212
ELY/NH	Electrolyte solution for Ammonium electrode, 50 ml.	821220
BA/A111/d	Instruction manual TresCon® A111/German.	BA43111d
BA/A111/e	Instruction manual TresCon® A111/English.	BA43111e
Accessories and Replacement parts TresCon® Nitrate/SAC		
ON 210	Separate TresCon® analyzer module for on-line measurement of nitrate, for extension of a TresCon® system, incl. manual. Supplied with reagents for 3 month operation, (1.5 l standard A-I (S/AI-N211) (zero standard H2O dest.) and 1.5 l cleaning solution (C/N211), overflow vessel (TC/ÜB 1) and annual need tubing (Wpack/N211).	820007
OS 210	Separate TresCon® analyzer module for on-line measurement of nitrate/SAC, for extension of a TresCon® system, incl. manual. Supplied with reagents for 3 month operation, (1.5 l standard A-I (S/AI-N211) (zero standard H2O dest.) and 1.5 l cleaning solution (C/N211), overflow vessel (TC/ÜB 1) and annual need tubing (Epack/N211).	820010
BEH/ T 1,5	1.5 l wide-necked bottle (with screw cap and labels).	821017
BEH/ T 10	10 l container (with screw cap and labels).	821019

Model	Description	Order No.
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
S/ AI - N 211	Standard solution A-I (zero standard NO3-N), 10 l.	821112
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
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
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
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
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
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
BA/N211/d	Instruction manual TresCon® N211/German.	BA43110d
BA/N211/e	Instruction manual TresCon® N211/English.	BA43110e
BA/S211/d	Instruction manual TresCon® S211/German.	BA43120d
BA/S211/e	Instruction manual TresCon® S211/English.	BA43120e
Accessories and Replacement parts TresCon® Nitrite		
ON 510	Separate TresCon® analyzer module for on-line measurement of nitrite, for extension of a TresCon® system, incl. Manual. Supplied with reagents for 3 month operation (R/ N511, S/B-N511, R/A111), annual need tubing (Epack/ N211), overflow vessel (TC/ ÜB1), 10 l container (BEH/T10) and 2x 1.5 l container (BEH/T1,5).	820009
BEH/ T 1,5	1.5 l wide-necked bottle (with screw cap and labels).	821017
BEH/ T 10	10 l container (with screw cap and labels).	821019
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
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
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
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
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
EL/ TC	Spare lamp for photometer block.	821175
Wpack/ N511	Set of maintenance kit (fittings and spare tubes) for TresCon® nitrite analyzer module, TresCon® N511 and TCU/N511.	821203
BA/N511/d	Instruction manual TresCon® N511/German.	BA43112d
BA/N511/e	Instruction manual TresCon® N511/English.	BA43112e

WTW Measuring Systems for Nitrogen

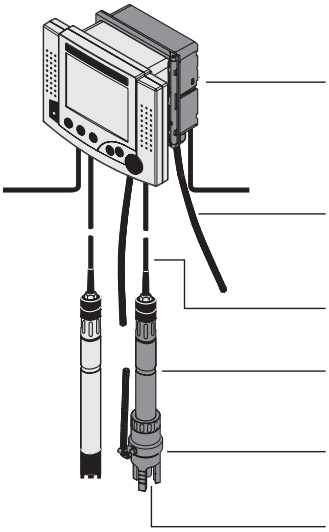
recommended by WTW ◑ suitable conditionally applicable **Measurement in aeration basin*

	Ammonium	Ammonium and Nitrate	Nitrate		Nitrate and Nitrite
System					
Sensor/Module	**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 NOx	**IQ Sensor Net** NitraVis 70X IQ (NI)/ NiCaVis 70X IQ NI/SF
Measured Variable	**NH_4**	**NH_4 and NO_3**	**NO_3**	**NO_X**	**NO_2 and NO_3**
Inlet (determination of load)	◑	◑	◑	I	I
Aeration (regulation and control)	I	I	I	I	I
Effluent (monitoring)	m	m	m	I	I
Autom. Cleaning	compressed air	compressed air	compressed air	ultrasonic (compressed air)	ultrasonic (compressed air)
Cleaning Cycles	variable	variable	variable	variable	variable
Measuring	in-situ	in-situ	in-situ	in-situ	in-situ
Sample Preparation	none	none	none	none	none
Measuring Interval	continuous	continuous	continuous	continuous	continuous
Response Time	quick	quick	quick	quick	quick
Measuring Method	ISE (ion-selective)	ISE (ion-selective)	ISE (ion-selective)	single wavelengths absorption measurement	UV-VIS and UV spectrometric
Accuracy	good	good	good	good	high
Cross Sensitivity	yes/potassium, compensable	yes, automatic compensation	yes/chloride, compensable	low	autom. compensated (spectrum)
Calibration	factory calibration	factory calibration	factory calibration	not necessary	not necessary
Investment Costs	low	low	low	low	medium
Additional Costs	–	–	–	–	–
Operational Costs	low	low	low	none	none
Consumables	electrodes	electrodes	electrodes	none	none

YSI, a Xylem Brand
1725 Brannum Lane, Yellow Springs, OH 45387 Tel: +1 937 767 7241
YSI.com/IQSN

Measuring Point Configurations
ISE (ion-selective) measuring techniques

VARiON®*Plus*



VARiON®*Plus* System:

IQ Sensor Net
optional: module **MIQ/CHV PLUS**
Order No. 480 018

External compressed air supply
3-5 bar or usage of Cleaning Air Box
Order No. 480 019

Sensor connection cable
SACIQ-7,0 Order No. 480 042

VARiON®*Plus* set with electrodes,
e.g. **VARiON®*Plus* A comp SET**
Order No. 107 060

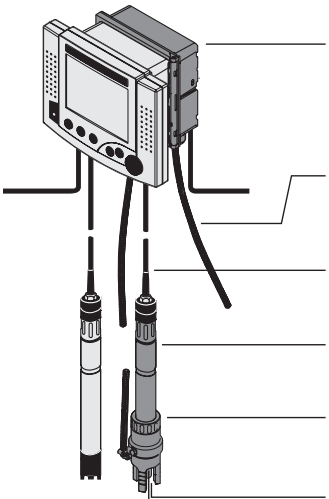
optional: Cleaning head **CH**
Order No. 900 107

Installed electrodes

IQ SENSOR NET

required components per measuring place: dark shaded

AmmoLyt®*Plus*



AmmoLyt®*Plus* System:

IQ Sensor Net
optional: module **MIQ/CHV PLUS**
Order No. 480 018

External compressed air supply
3-5 bar or usage of Cleaning Air Box
Order No. 480 019

Sensor connection cable
SACIQ-7,0 Order No. 480 042

Sensor assembly
AmmoLyt®*Plus* 700 IQ
Order No. 107 070

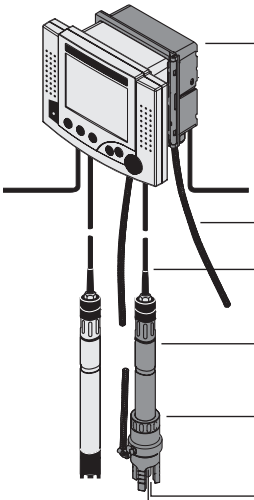
optional: Cleaning head **CH**
Order No. 900 107

Electrodes
VARiON® *Ref* Order No. 107 042
VARiON®*Plus* NH_4
Order No. 107 044
VARiON®*Plus* K Order No. 107 046

IQ SENSOR NET

required components per measuring place: dark shaded

NitraLyt®*Plus*



NitraLyt®*Plus* System:

IQ Sensor Net
optional: module **MIQ/CHV PLUS**
Order No. 480 018

External compressed air supply
3-5 bar or usage of Cleaning Air Box
Order No. 480 019

Sensor connection cable
SACIQ-7,0 Order No. 480 042

Sensor assembly
NitraLyt®*Plus* 700 IQ
Order No. 107 080

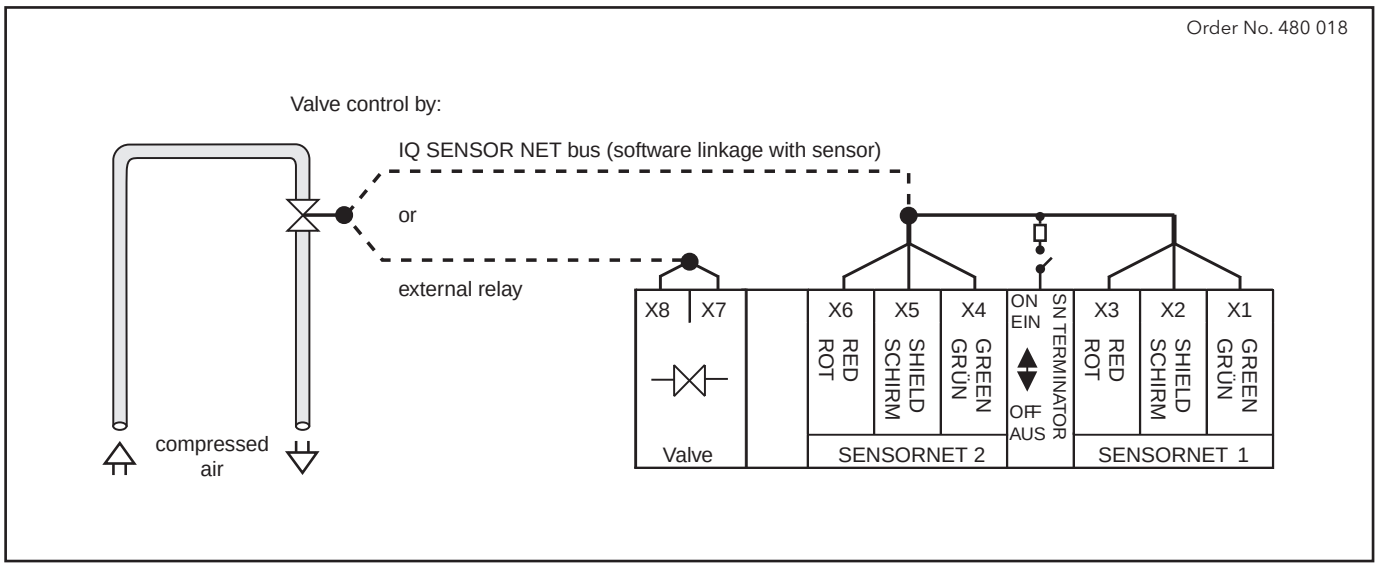
optional: Cleaning head **CH**
Order No. 900 107

Electrodes
VARiON® *Ref* Order No. 107 042
VARiON®*Plus* NO_3
Order No. 107 045
VARiON®*Plus* Cl Order No. 107 047

IQ SENSOR NET

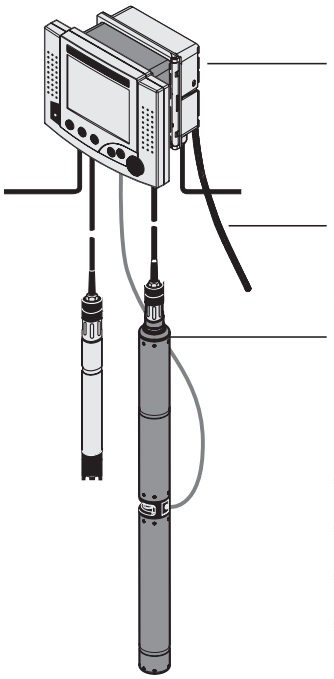
required components per measuring place: dark shaded

Electrical connections MIQ/CHV PLUS



Measuring Point Configuration

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

IQ SENSOR NET

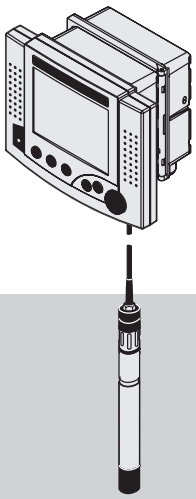
required components per measuring place: dark shaded

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:

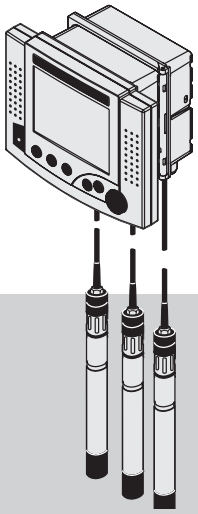
- MIQ/TC 2020 3G (Terminal/Controller)
- MIQ/CR3 (3 x mA, 3 x relays)
- MIQ/PS (power supply)

additionally:
- 1 SACIQ (sensor cable)
- 1 IQ sensor

Monitor
with 3 analog outputs and 3 relays, universally employable 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:

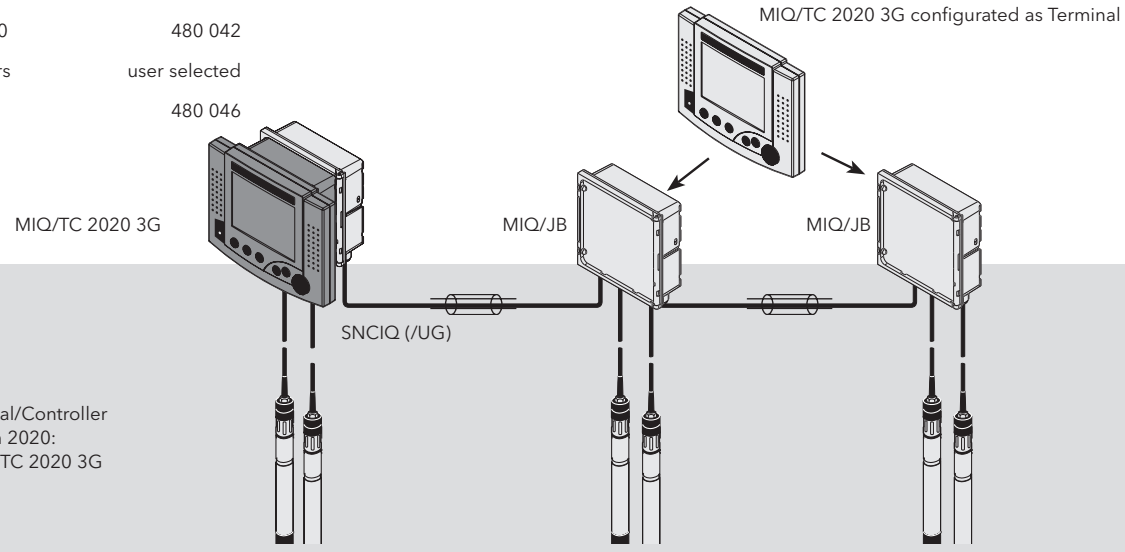
- MIQ/TC 2020 3G (Terminal/Controller)
- MIQ/CR3 (3 x mA, 3 x Relays)
- MIQ/PS (power supply)

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



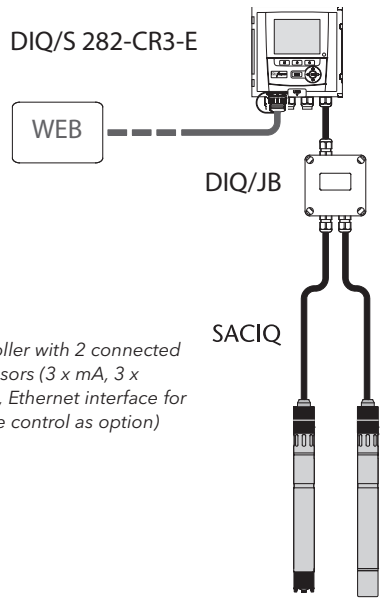
Terminal/Controller
System 2020:
- MIQ/TC 2020 3G

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 282/284

Example 1

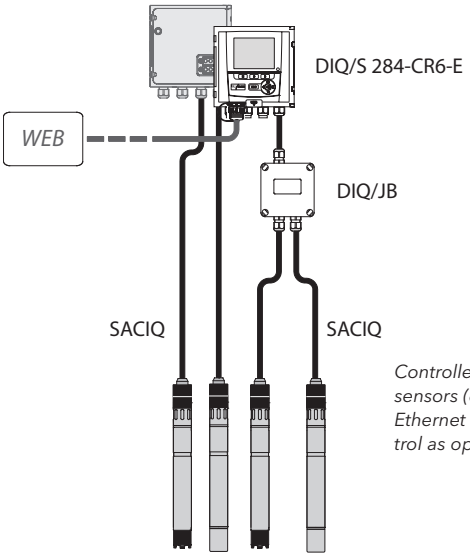
Example with 2 IQ sensors	Order no.
DIQ/S 282-CR3-E	472 113
2 x SACIQ-7,0	480 042
DIQ/JB	472 005
2 x IQ sensors	user selected



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.

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

Sensors / Parameter	TriOxmatic® 700 IQ (F)	FDO® 700/701 IQ (F)	SensoLyt® 700 IQ (F)	TetraCon® 700 IQ (F)	VisoTurb® 700 IQ (F)	ViSolid® 700 IQ	AmmoLyt® 700 IQ	NitraLyt® 700 IQ	VARiON® 700 IQ	NitraVis® 701/705 IQ (TS)	NitraVis® 701/705 IQ NI	**CarboVis® 701/705 IQ**	**NiCaVis® 705 IQ (TS/SF)**	**NiCaVis® 701/705 IQ (NI)**	**UV 701/705 IQ SAC**	UV 701/705 IQ NOx	IFL 700 IQ	Alyza IQ PO_4
Usable with Systems 2020 and 282/284																		
Usable with System 181																		
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 ××	
Parameter																		
TSS (optical)																		
Nitrate (ion-selective)																		
Nitrate (optical/spectral)																		
Nitrite (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 PO_4 provides 10 W*
Only relevant for the respective sensor with fixed cable.
NO_2-N is included in the measurement result

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
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
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
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
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

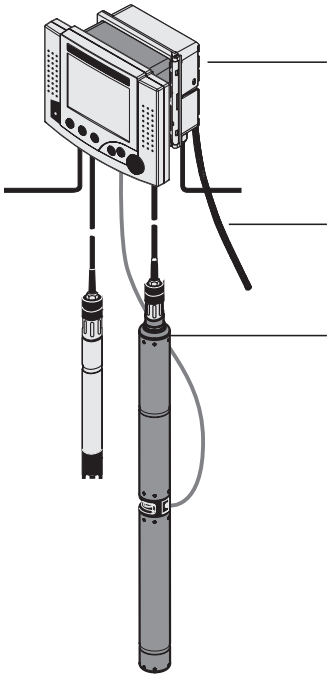
Model		Description	Order No.
CarboVis 705 IQ TS		Optical COD/TOC/DOC/BOD/SAC and TSS sensor (60 mm) with spectral processing of the UV-VIS range, for measurement in the effluent of municipal wastewater treatment plants, with integrated integrated ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, without connection cable (SACIQ order separately).	481051
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
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
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
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
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
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
Accessories Spectral Sensors (Carbon)			
DIQ/CHV		Dual IQ/Cleaning Head Valve for automatic air cleaning controlled by a relay, for system 282/284, (relay and compressed air supply external)	472007
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
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
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
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
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
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
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
SACIQ-Plug		Screwable plug for all SACIQ sensor adapter cables for IQ sensors	480065
VIS FT-1		Flow-through measurimg cell for spectral UV and UV-VIS sensors, for operation with automatic compressed air cleaning	480080
VIS FT-1/RS		Spare part set for flow-thru measuring cell VIS FT-1	480081
VIS/CT		Universal cleaning tool for spectral sensors.	481071
VIS/CV		Multifunctional slide for spectral sensors.	481074
SET/AP		Air pressure cleaning set for spectral sensors: Supplied with 15 m (49 ft) tubing, fittings, without further modules and components.	481075
ST-1		Standard with low concentration for 5 mm spectral sensors.	481077
ST-2		Standard with high concentration for 1 mm specrtal sensors.	481078
VIS/CS		Universal cleaning tool set for cleaning of measuring windows of spectral sensors with cleaning solutions.	481079

**** Sensor variation with different cable length („SO"): Additional costs depending on cable length.*

*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.*

Measuring Point Configuration

CarboVis® (TS)/NiCaVis® (NI)/UV 70x IQ SAC



CarboVis (TS)-/NiCaVis® (NI)-/ UV 70x IQ SAC-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.

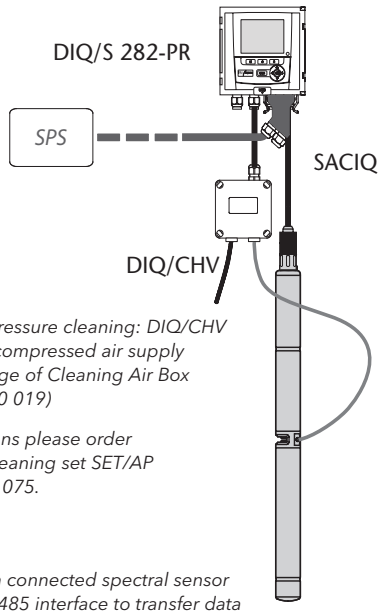
Optical Sensor:
- CarboVis 701/705 IQ
Order No. 481 048/481 050
- CarboVis 701/705 IQ TS
Order No. 481 049/481 051
- NiCaVis 705 IQ
Order No. 481 052
– NiCaVis 701/705 IQ NI
Order No. 481 054/481 055
– UV 701/705 IQ SAC
Order No. 481 036/481 038

IQ SENSOR NET

required components per measuring place: dark shaded

Example 1

Spectral sensor and PROFIBUS	**Order No.**
DIQ/S 282-PR	472 111
1 x SACIQ-7,0	480 042
1 spectral sensor	user selected



Optional air pressure cleaning: DIQ/CHV 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.

Controller with connected spectral sensor (3 x Relays, RS485 interface to transfer data to a PLC via PROFIBUS)

Phosphate

Parameter \ Sensors	TriOxmatic® 700 IQ (F)	FDO® 700/701 IQ (F)	SensoLyt® 700 IQ (F)	TetraCon® 700 IQ (F)	VisoTurb® 700 IQ (F)	ViSolid® 700 IQ	AmmoLyt® 700 IQ	NitraLyt® 700 IQ	VARiON® 700 IQ	NitraVis® 701/705 IQ (TS)	NitraVis® 701/705 IQ NI	CarboVis® 701/705 IQ (TS)	NiCaVis® 705 IQ (TS/SF)	NiCaVis® 701/705 IQ (NI)	UV 701/705 IQ SAC	UV 701/705 IQ NOx	IFL 700 IQ	**Alyza IQ PO_4**
Usable with Systems 2020 and 282/284																		
Usable with System 181																		
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 × ×	
Parameter																		
Ortho-Phosphate (optical/wet chemical)																		

× *When operating with System 282/284, the average power consumption can be used. Details see operating manual System 282/284.*
×× *Power supply: Alyza IQ PO_4 provides 10 W*
Only relevant for the respective sensor with fixed cable.

Model		Description	Order No.
Alyza IQ Orthophosphate			
Alyza IQ PO4-110	New	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
Alyza IQ PO4-111	New	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
Alyza IQ PO4-112	New	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
Alyza IQ PO4-120	New	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
Alyza IQ PO4-121	New	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
Alyza IQ PO4-122	New	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
Consumables Alyza IQ PO4			
Filter-REP		Replacement air filter for fan of Alyza IQ and P 700 IQ	821969
MPV-1	New	Multiport valve for Alyza IQ PO4	827000

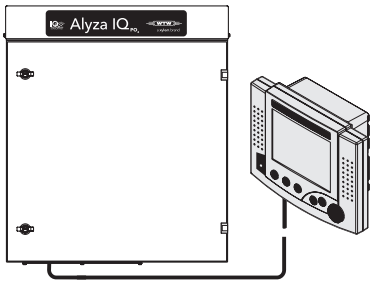
Model		Description	Order No.
TubingSet PO4	New	Set Tubings PO4 with sample contact	827101
Syringe Pump Set	New	Spareparts syringe pump	827170
R-PO4/1-1A	New	Reagent 1A for PO4 measurement range 1 (0.02 … 15.00 mg/L PO4-P) Alyza IQ	827520
R-PO4/1-1B	New	Reagent 1B for PO4 measurement range 1 (0.02 … 15.00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

Model		Description	Order No.
Accessories Alyza IQ			
FM-B		Cleaning brush for filter membrane module	821968
FM-Adapter		Adapter for horizontal mounting of filter membrane module FM	821983
Filter-CL		Cleaning case for filter membranes	821984
M-EXT 1.5		Extension for attachement M 1.5. Included: Extension 1.5 m, chain, bracket	821985
M 1.5		Attachment for filtration. Included: Rail 1.5 m (4.9 ft), chain, bracket	821986
RM		Rail mount for Alyza IQ and P 700 IQ	821988
WM		Wall mount for Alyza IQ and P 700 IQ	821989
SM		Stand mount for Alyza IQ and P 700 IQ	821991
TM	New	Accessory for mounting of IQ Sensor Net components on Alyza IQ	822000
Overflow Vessel	New	Overflow vessel incl. overflow tubing	827180
Filtration Pump	New	Filtration pump for Alyza IQ incl. connecting tube	827185
Check valve	New	Check valve Alyza IQ, for retrofitting at a head > 5 m	827186
Waste Funnel Set	New	Waste funnel set for the separate collection of reagent containing waste	827187
Conversion kit PO4 MB1	New	Conversion kit Alyza IQ PO4 MB2 to MB1	827190
Conversion kit PO4 MB2	New	Conversion kit Alyza IQ PO4 MB1 to MB2	827191

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.xylemanalytics.com/en under Customer Support/Downloads/Datasheets.*

Configuration examples Alyza IQ PO4 in the IQ Sensor Net



System 2020

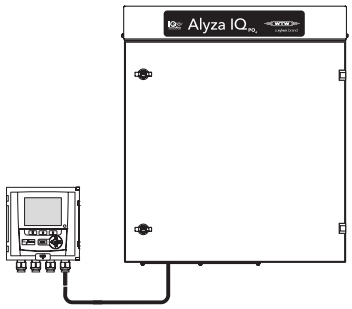
Example configuration	Order no.
Alyza IQ PO4-112 *Orthophosphate analyzer, 2-channel, measuring range 1*	825512
MIQ/TC 2020 3G *Controller*	470020
MIQ-/JB *Junction Box*	480008
SNCIQ *Connection cable, 2 m*	included in scope of delivery
Reagents see previous pages	
Filtration see previous pages	

ⓘ *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	Order no.
Alyza IQ PO4-111 *Orthophosphate analyzer, 1-channel, measuring range 1*	825511
DIQ/S 282-CR3 *Controller*	472130
SNCIQ *Connection cable, 2 m*	included in scope of delivery
Reagents see previous pages	
Filtration see previous pages	

ⓘ *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

Parameter \ Sensors	TriOxmatic® 700 IQ (F)	FDO® 700/701 IQ (F)	SensoLyt® 700 IQ (F)	TetraCon® 700 IQ (F)	ViSoTurb® 700 IQ (F)	ViSolid® 700 IQ	AmmoLyt® 700 IQ	NitraLyt® 700 IQ	VARiON® 700 IQ	NitraVis® 701/705 IQ (TS)	NitraVis® 701/705 IQ NI	CarboVis® 701/705 IQ (TS)	NiCaVis® 705 IQ (TS/SF)	NiCaVis® 701/705 IQ (NI)	UV 701/705 IQ SAC	UV 701/705 IQ NOx	**IFL 700 IQ**	Alyza IQ PO_4
Usable with Systems 2020 and 282/284																		
Usable with System 181																		
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 × ×	
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 PO_4 provides 10 W*
Only relevant for the respective sensor with fixed cable.

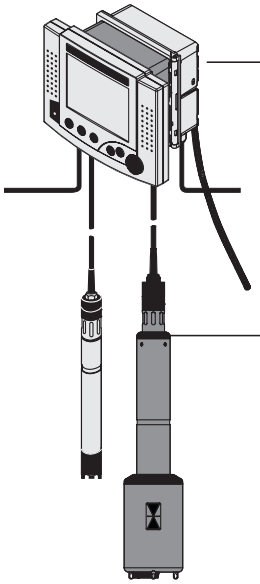
*Detailed technical data can be found in the brochure "**Data sheets process instrumentation**" (999266US); also available on our homepage www.xylemanalytics.com/en under Customer Support/Downloads/Datasheets.*

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
Accessories Sludge Level			
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
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
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
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
SACIQ-Plug		Screwable plug for all SACIQ sensor adapter cables for IQ sensors	480065
IFL-E		Deflector armature for IFL 700 IQ and IFL 701 IQ for application with surface skimmers	481206
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

*** *Sensor variation with different cable length („-SO"): Additional costs depending on cable length.*

Measuring Point Configuration

Sludge Level



IFL 700 IQ

IQ Sensor Net

Sludge level sensor can be used with system 2020 and System 282/284. For data transfer in combination with moving surface scrapers using wireless transmission with the MIQ/WL PS SET is recommended

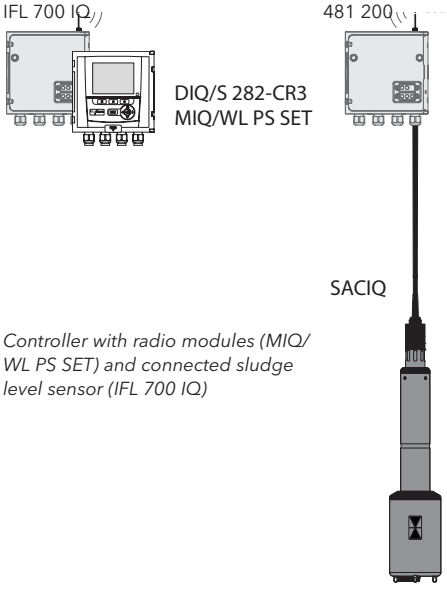
Order No. 480 025

Sludge Level Sensor
- IFL 700 IQ Order No. 481 200
- IFL 701 IQ Order No. 481 201

required components per measuring place: dark shaded

Example 1

Sludge level measurement	**Order No.**
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



Controller with radio modules (MIQ/WL PS SET) and connected sludge level sensor (IFL 700 IQ)

IQ Sensor Net

Parameter \ Sensors	TriOxmatic® 700 IQ (F)	FDO® 700/701 IQ (F)	SensoLyt® 700 IQ (F)	TetraCon® 700 IQ (F)	VisoTurb® 700 IQ (F)	ViSolid® 700 IQ	AmmoLyt® 700 IQ	NitraLyt® 700 IQ	VARiON® 700 IQ	NitraVis® 701/705 IQ	NitraVis® 701/705 IQ NI	CarboVis® 701/705 IQ	NiCaVis® 705 IQ (TS/SF)	NiCaVis® 701/705 IQ (NI) SF	UV 701/705 IQ SAC	UV 701/705 IQ NOx	IFL 700 IQ	Alyza IQ PO_4
Usable with Systems 2020 and 282/284																		
Usable with System 181																		
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	
Parameter										×	×	×	×	×	×	×		××
Temperature																		
Dissolved Oxygen (electrochemical)																		
Dissolved Oxygen (optical)																		
pH																		
ORP																		
Conductivity																		
Salinity																		
TDS																		
Turbidity (optical)																		
TSS (optical)																		
Ammonium (ion-selective)																		
Nitrate (ion-selective)																		
Nitrate (optical/spectral)																		
Nitrite (optical/spectral)																†		
Potassium (ion-selective)																		
Chloride (ion-selective)																		
COD (optical/spectral)																		
BOD (optical/spectral)																		
TOC (optical/spectral)																		
DOC (optical/spectral)																		
SAC (optical/spectral)																		
UVT (optical/spectral)																		
Sludge Level																		
Ortho-Phosphate (optical/wet chemical)																		

>15 years of experience
IQ SENSOR NET
>1000 systems sold

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

×× *Power supply: Alyza IQ PO_4 provides 10 W*

Only relevant for the respective sensor with fixed cable.

NO_2-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 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
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
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
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
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
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
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® 701and protective cap MSK FDO®, without connection cable (SACIQ order separately)	201653
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
pH/ORP			
Sensolyt® TFA	New	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 0 … 14 pH	109114
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
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
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
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
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
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
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
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
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

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
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
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
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
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
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
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, protective device and calibration vessel. Please order electrodes separately.	107040
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 electrodeVARiON®Plus K (potassium). Please order SACIQ cable separately.	107060
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
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
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
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
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
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
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
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
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

Model	Description	Order No.
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

Model		Description	Order No.
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
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
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
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
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
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
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
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
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
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
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
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
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
SACIQ-Plug		Screwable plug for all SACIQ sensor adapter cables for IQ sensors	480065
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

*** *Sensor variation with different cable length („-SO"); Additional costs depending on cable length.*

Systems 282/284 and 2020				
	System 282/284		System 2020	
Max. Number of connectable Sensors	**2/4**		**20**	
Max. number of parallel measured parameters	**20****		**20****	
Output Signals	**ANALOG:**	**DIGITAL:**	**ANALOG:**	**DIGITAL:**
	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, in PROFIBUS/Modbus systems yes		Basically no, in PROFIBUS/Modbus systems yes	
Additional Options				
Additional Displays	No		Yes	
Redundant Controller	No		Yes	
Datalogger	Yes		Yes	
Modem-capable Interface (Fixed Line Telephone)	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	Yes		Yes	

** Here only the F-sensors can be connected: SensoLyt® 700 IQ F, FDO 700/701 IQ F, TriOxmatic® 700 IQ F, TetraCon® 700 IQ F and VisoTurb® 700 IQ F.*

*** 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 sensors with fixed cable connection cannot be connected here.*

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	Measurement of parameters
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

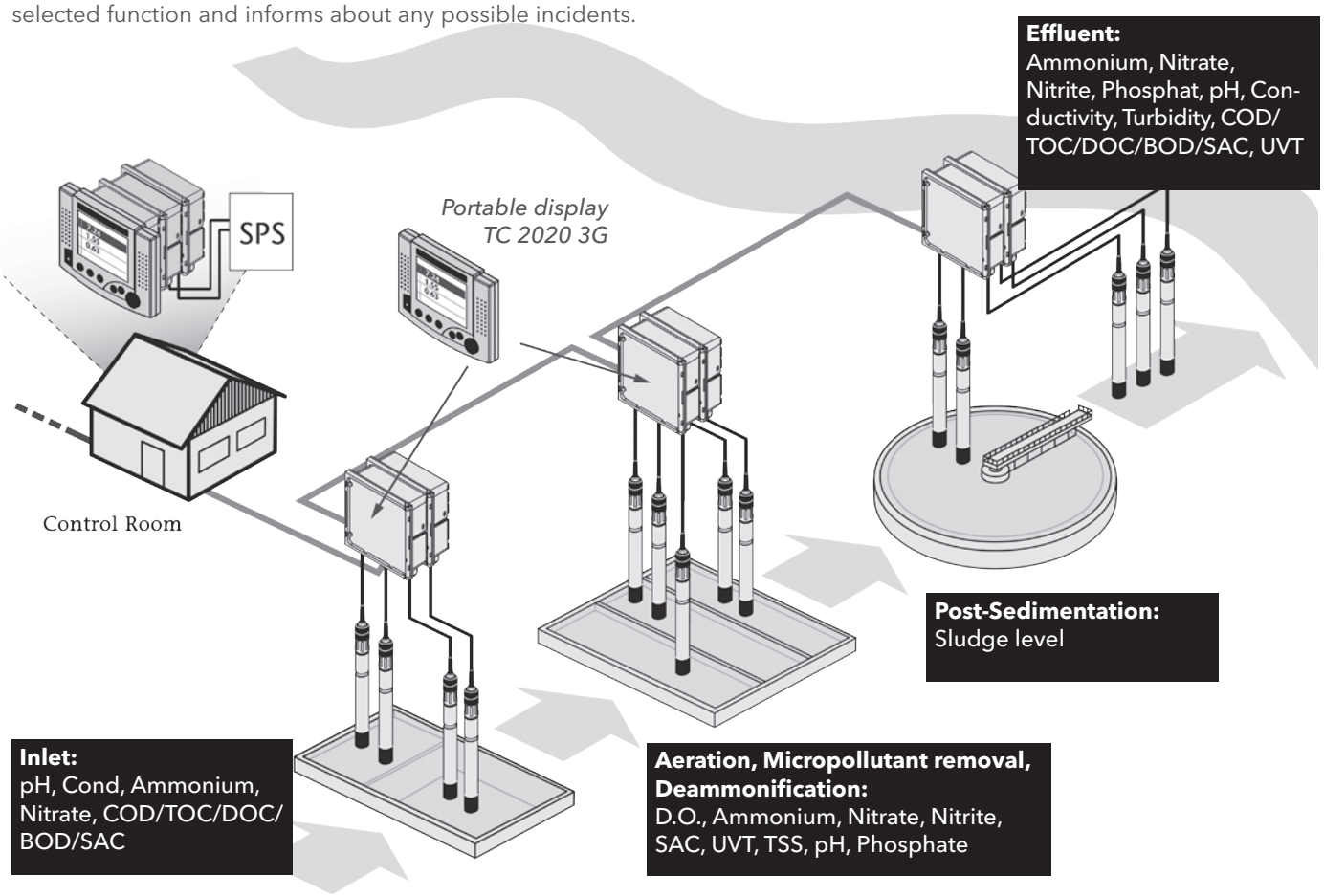
Modules	MIQ/PS	MIQ/24V	MIQ/C6	MIQ/R6	MIQ/CR3	MIQ/IC2	MIQ/3-MOD	MIQ/3-PR	MIQ/JB	MIQ/JBR	MIQ/WL PS (SET) ***	MIQ/TC2020 3G	MIQ/MC3	MIQ/MC3-MOD	MIQ/MC3-PR	Cleaning Air Box - 230	Cleaning Air Box - 115	MIQ/CHV PLUS
Usable with System 2020																		
Usable with System 282/284																		
Available IQSN connectors	3	3	2	2	2	2	3	3	4	4	3	X	2	2	2	X	X	2
Electrical current [W]	*	*	3.0	1.5	3.0	0.2	3.0	3.0	0.0	0.2	0.6	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)																		
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.



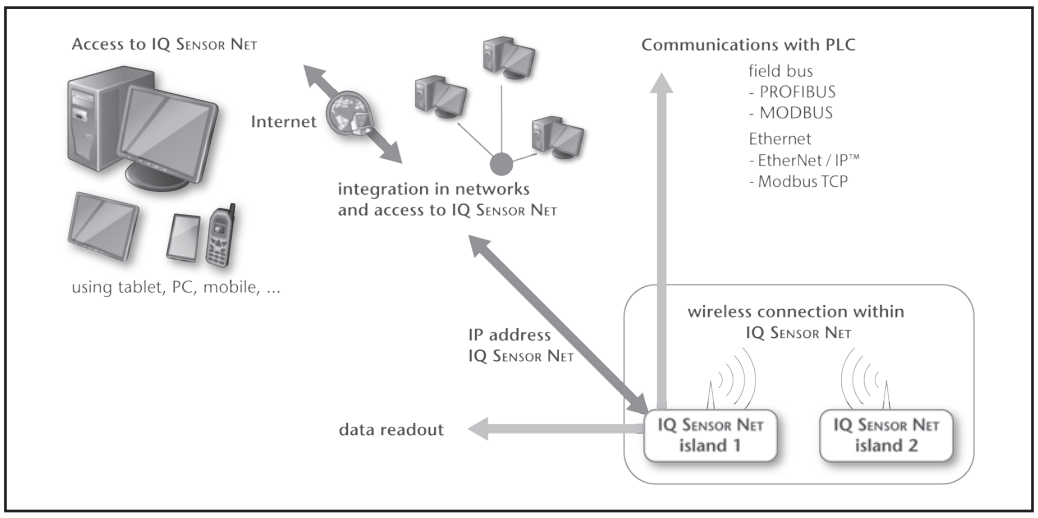
Digital communication with the IQ Net

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 withing 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
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
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
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
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
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
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
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
MIQ/R6	Module IQ/Relais 6, for system 2020 and 282/284, with 6 relays (240 VAC/2 A)	480013
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
MIQ/C6	Module IQ/Current 6, for system 2020 and 282/284, with 6 (0) 4 - 20 mA outputs	480015
MIQ/IC2	Module IQ/input current with 2 (0) 4 - 20 mA inputs, for system 2020 and 282/284	480016
System Extension		
MIQ/JB	Module IQ/Junction Box for system 2020 and 282/284, 4 idle IQ SENSOR NET connections	480008
MIQ/JBR	Module IQ/Junction Box Repeater for system 2020, with integrated bidirectional signal amplifier (repeater)	480010
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
MIQ/WL PS SET	Modul IQ/Wireless, for cable free communication within the IQ Sensor Net System 282/284 and System 2020. Starterset consists of 1 Master and 1 Slave. Extension with MIQ/WL PS (480023) possible.	480025
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
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
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
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
EW/1	Set of 4 cable glands M20 required for cable sheaths with an outside diameter of more than 10 mm.	480051
ADA/D-SUB	D-SUB connection for Profibus and Modbus connections for the IQ 2020 and 282/284 systems.	902888
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 Kl/pH 170) or an IQ SENSOR NET module	109284
MR/SD 170	Mounting kit for attaching sun shields to pipes	109286
SSH/IQ	Sun shield for mounting of IQ SENSOR NET modules and series 171/170 monitors to mounting stands	109295

Model	Description	Order No.
SNCIQ	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)	480046
SNCIQ/UG	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)	480047
PMS/IQ	Kit for panel mounting of IQ SENSOR NET modules	480048
THS/IQ	Kit for top hat rail mounting of IQ SENSOR NET modules	480050
WMS/IQ	Kit for wall mounting of IQ SENSOR NET modules	480052
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
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
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
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
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

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
	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 sensoren 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 relais)	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.*

TD

*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 IQ	D.O. sensor		0.2
TriOxmatic® 702 IQ	D.O. sensor		0.2
FDO 700 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)	Spectral sensor for the measurement of COD/TOC/DOC/BOD/SAC/UVT_{254}		8.0
NiCaVis 705 IQ	Spectral sensor for the measurement of Nitrate and COD/TOC/DOC/BOD/ SAC/UVT_{254}		8.0
NiCaVis 701/705 IQ NI	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
P 700 IQ	Orthophosphate analyzer		0.5
IFL 700 IQ	Sludge level sensor with integrated scraper		5.5
IFL 701 IQ	Sludge level sensor without scraper		3.0
Alyza IQ PO_4	Phosphate analyzer		10

Output modules analog

with numbers ⊗ of **IQ Sensor Net** terminal connections

	Each mA-output, each relais with one module is considered as 1 channel.		**In total there are 48 output channels/ system available** **Number of occupied output channels**	
MIQ/CR3	Module IQ / current relay 3 with 3 analog outputs and 3 relay outputs 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 possible, whereby 1 is installed constantly to the station (terminal / controller function) and 2 are removable or replaceable (terminal function)		3.0

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 voltage	③		18

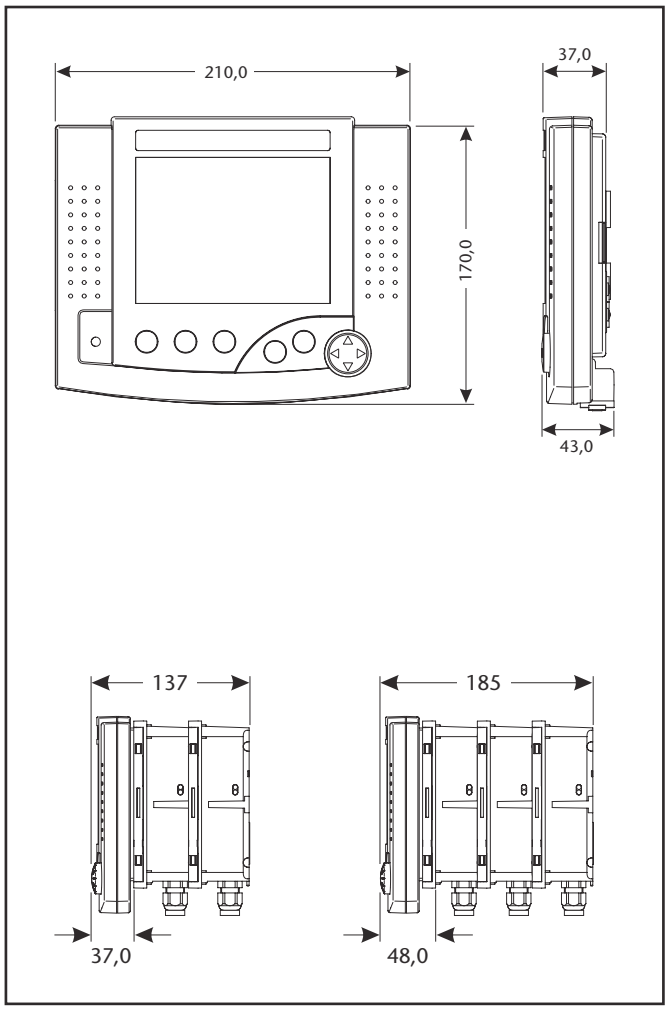
Attention: Please consider power consumption of SNCIQ cable: 1 W per 100 m/109 yds (for cable lengths above 400 m/437 yds)

** further power consumption by external devices is possible.*

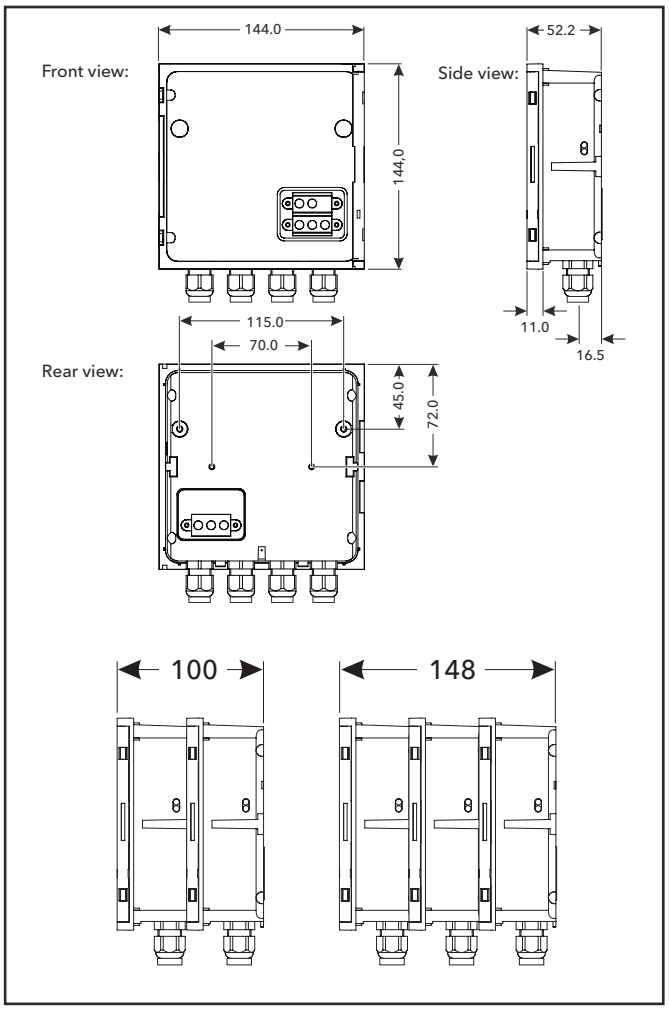
*** each occupied current input is counted as IQ sensor*

Dimension Terminal/Controller Components for System 2020

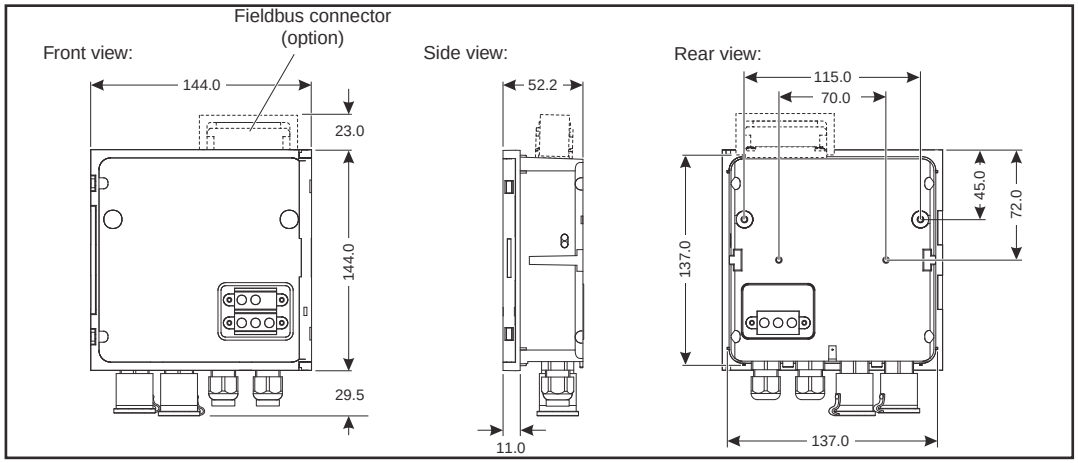
MIQ/TC 2020 3G



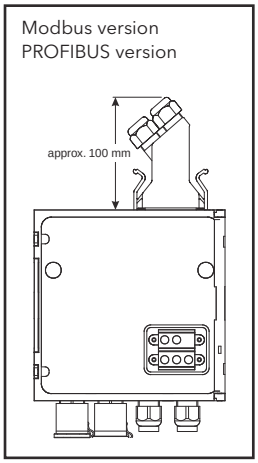
MIQ-Modules



MIQ/MC3

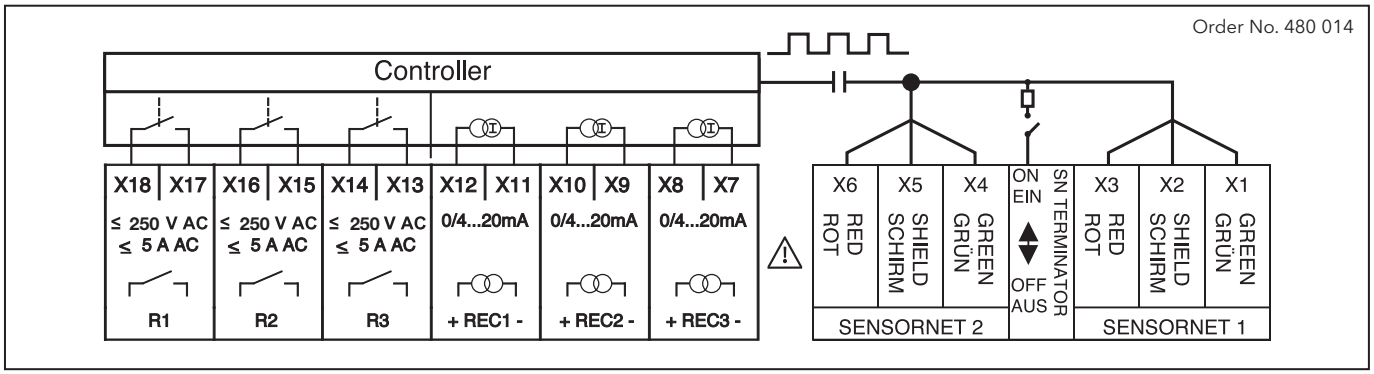


Connection variants

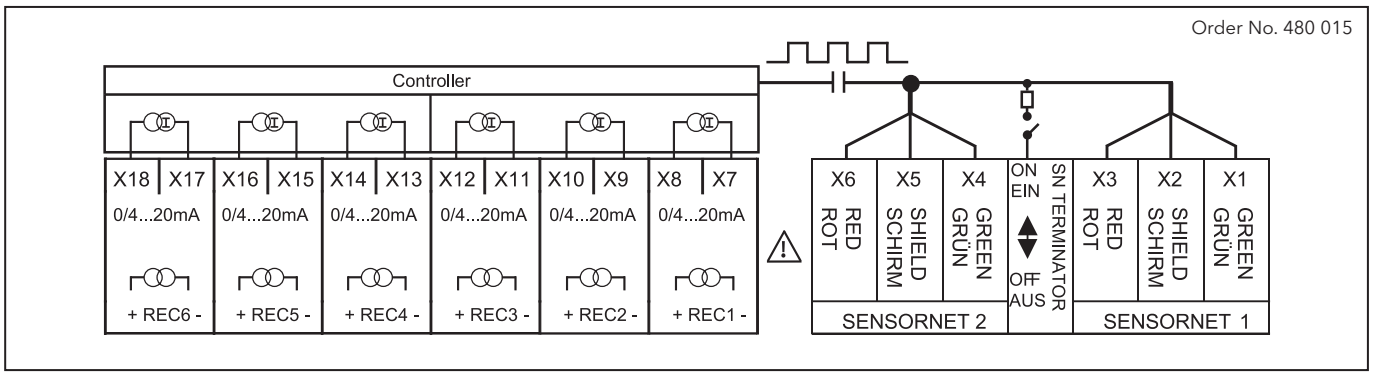


Electrical Connections MIQ/Modules for System 2020

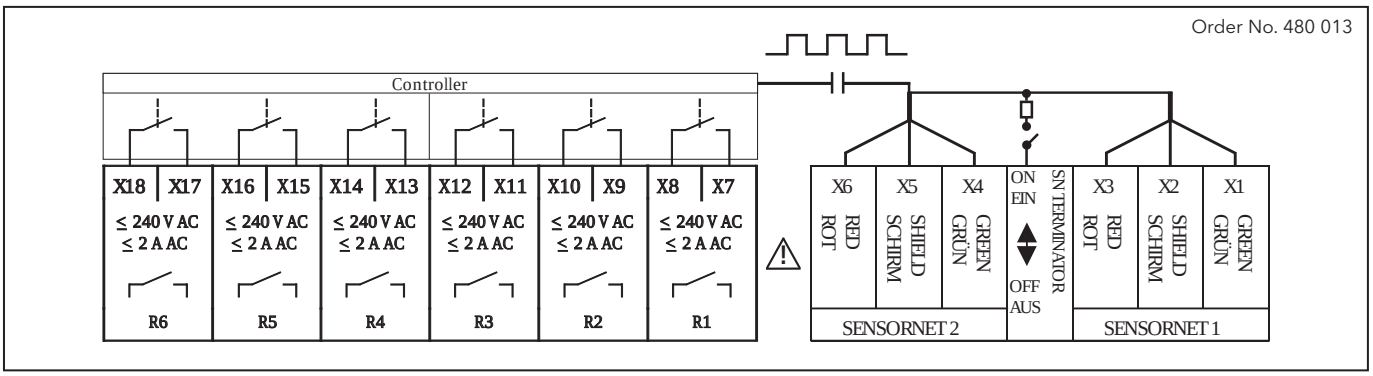
MIQ/CR3



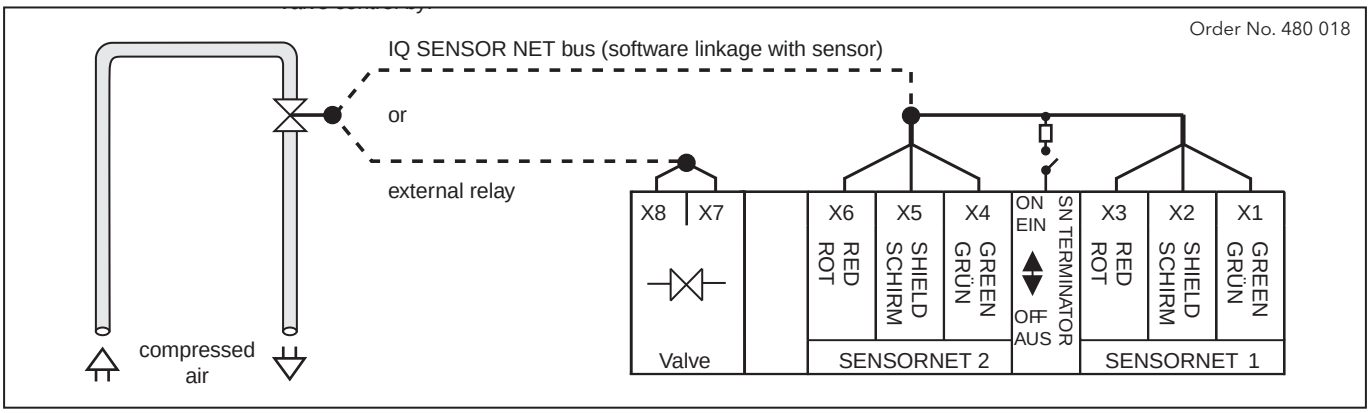
MIQ/C6



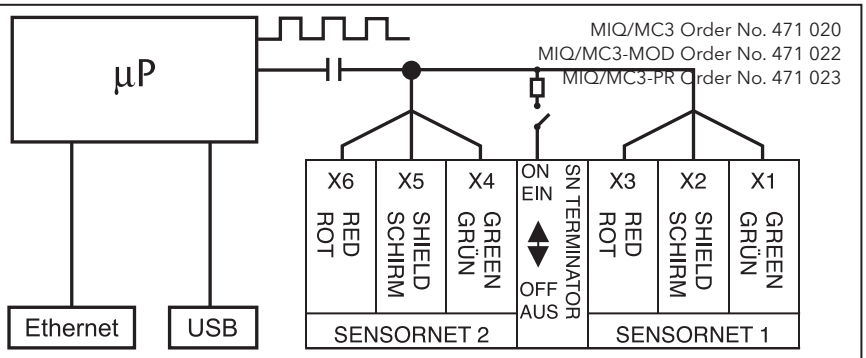
MIQ/R6



MIQ/CHV PLUS

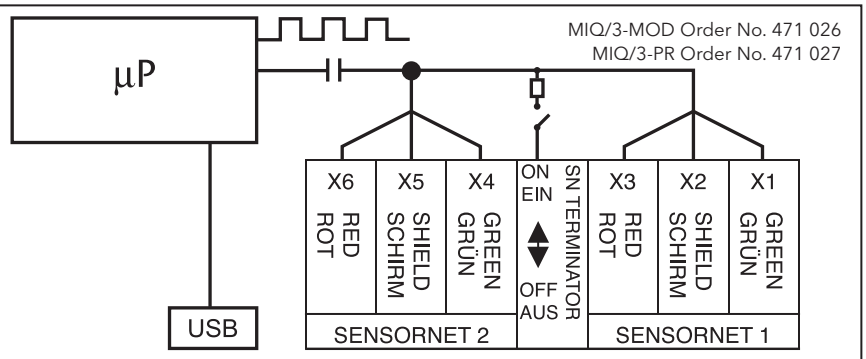


MIQ/MC3, MIQ/MC3-PR and MIQ/MC3-MOD



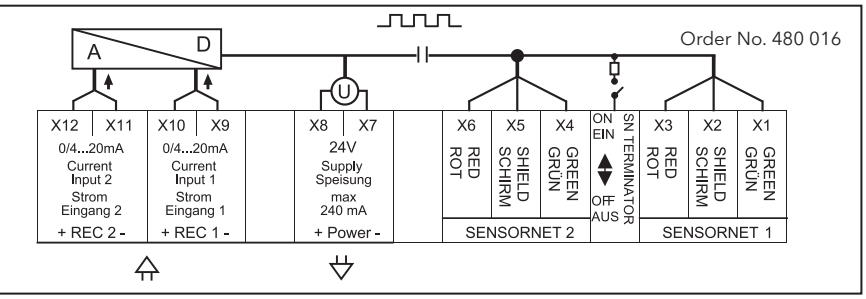
Profibus/Modbus connection via D-Sub plug connection (IP 66), ADA/D-SUB (902 888) or Phoenix

MIQ/3-PR and MIQ/3-MOD

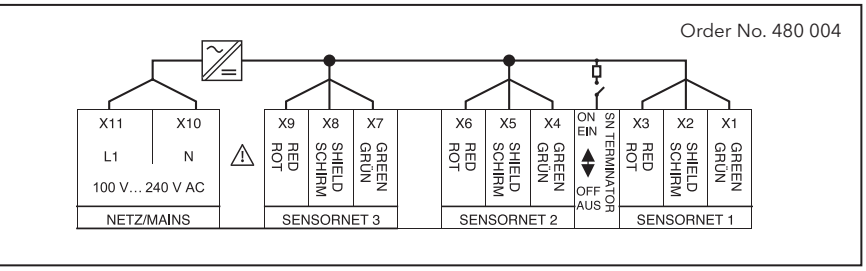


Profibus/Modbus connection via D-Sub plug connection (IP 66), ADA/D-SUB (902 888) or Phoenix

MIQ/IC2



MIQ/PS



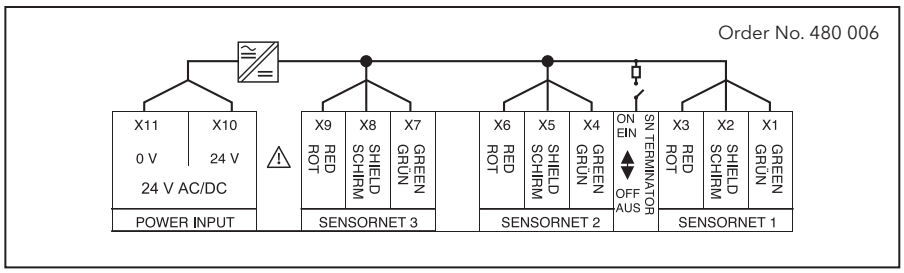
Explanation

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.

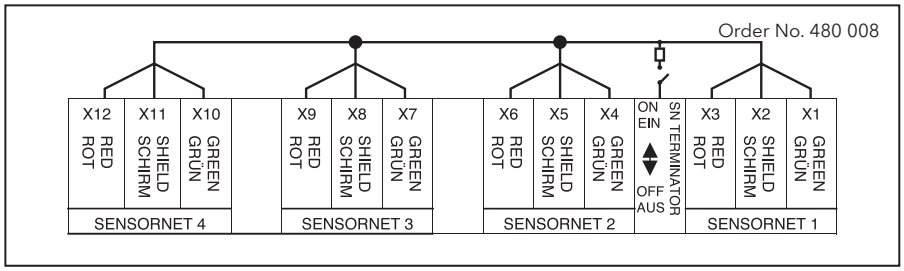
Special characteristics

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

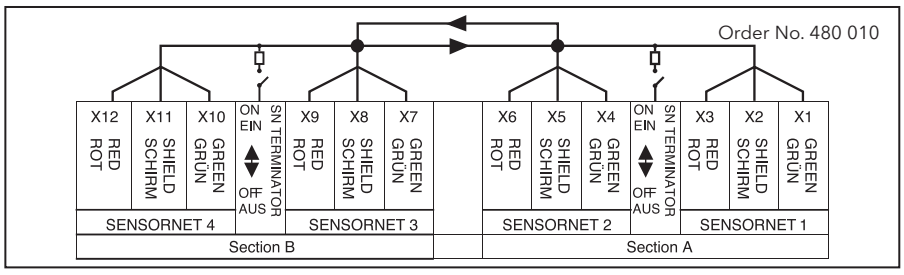
MIQ/24V



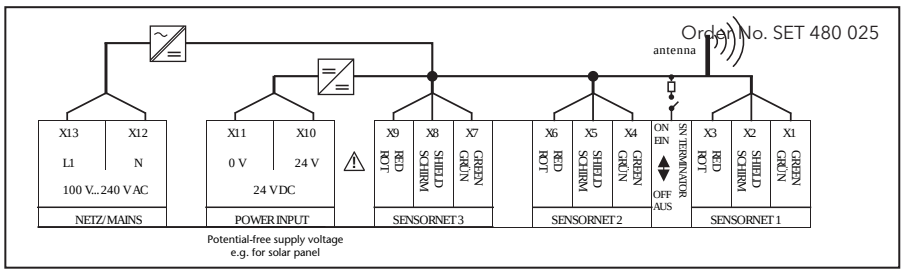
MIQ/JB



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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
DIQ/CHV	Dual IQ/Cleaning Head Valve for automatic air cleaning controlled by a relay, for system 282/284, (relay and compressed air supply external)	472007
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
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
MIQ/JB	Module IQ/Junction Box for system 2020 and 282/284, 4 idle IQ SENSOR NET connections	480008
MIQ/R6	Module IQ/Relais 6, for system 2020 and 282/284, with 6 relays (240 VAC/2 A)	480013

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
MIQ/C6	Module IQ/Current 6, for system 2020 and 282/284, with 6 (0) 4 - 20 mA outputs	480015
MIQ/IC2	Module IQ/input current with 2 (0) 4 - 20 mA inputs, for system 2020 and 282/284	480016
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
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
MIQ/WL PS SET	Modul IQ/Wireless, for cable free communication within the IQ Sensor Net System 282/284 and System 2020. Starterset consists of 1 Master and 1 Slave. Extension with MIQ/WL PS (480023) possible.	480025
SNCIQ	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)	480046
SNCIQ/UG	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)	480047
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
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
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
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
ADA/D-SUB	D-SUB connection for Profibus and Modbus connections for the IQ 2020 and 282/284 systems.	902888
ADA/E	Connector for the Ethernet interface (RJ45) on controllers of System 282/284. Ensures protection IP67 when Ethernet cable is connected outdoor.	902890

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

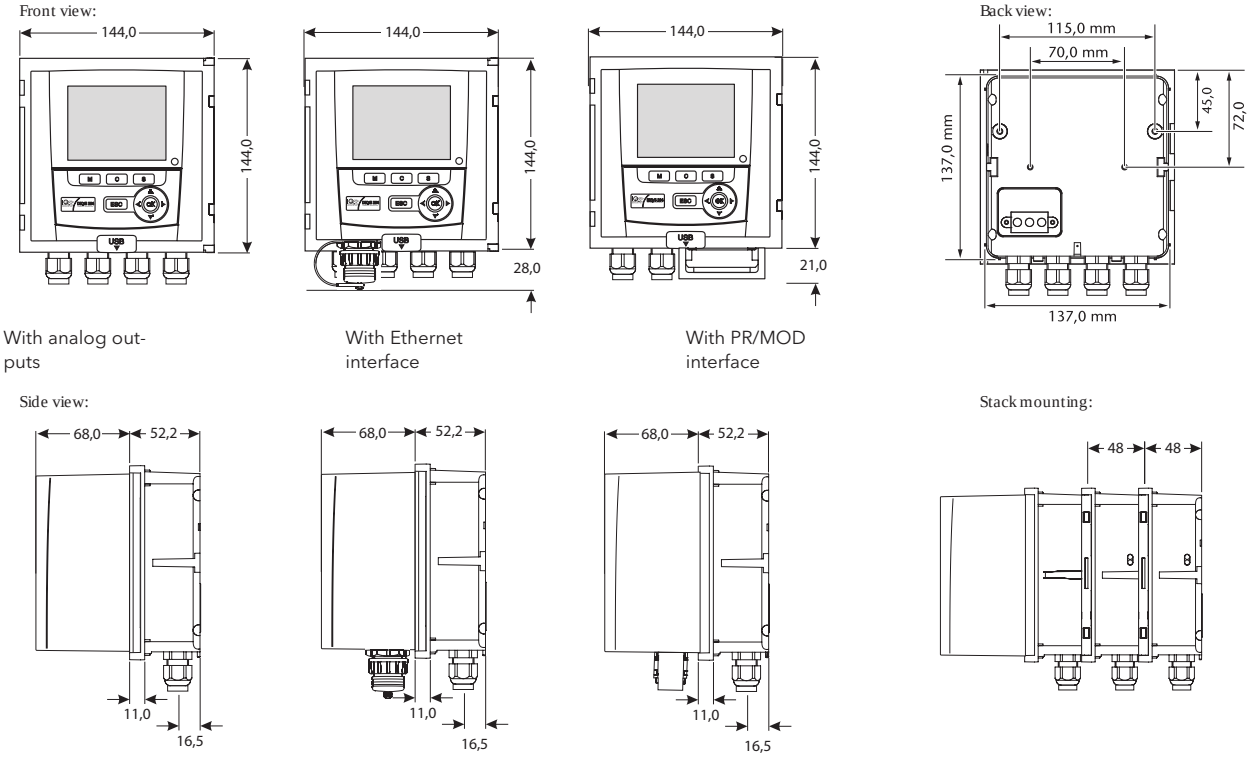
Type	Description		Systems 282/284 Number Min/Max	Power consumption [W]
IQ Sensors				
SensoLyt® 700 IQ (SW)	pH/ORP assembly		DIQ/S 282 1/2 DIQ/S 284 1/4	0.2
TriOxmatic® 700 IQ (SW)	D.O. sensor			0.2
TriOxmatic® 701 IQ	D.O. sensor			0.2
TriOxmatic® 702 IQ	D.O. sensor			0.2
FDO® 700 IQ (SW)	Optical D.O. sensor			0.7
FDO® 701 IQ (SW)	Optical D.O. sensor with faster response time			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 Ammonia and Nitrate (ISE)			0.2
AmmoLyt®Plus 700 IQ	Ammonia 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)	Spectral sensor for the measurement of COD/TOC/DOC/BOD/SAC/UVT_{254}			8.0 ***
NiCaVis® 705 IQ	Spectral sensor for the measurement of Nitrate and COD/TOC/DOC/BOD/SAC/UVT_{254}			8.0 ***
NiCaVis® 701/705 IQ NI	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 ***
IFL 700 IQ	Sludge level sensor with automated cleaning			5.5 ***
IFL 701 IQ	Sludge level sensor			3.0
Alyza IQ PO_4	Phosphate analyzer			10
P 700 IQ	Orthophosphate analyzer			0.5
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

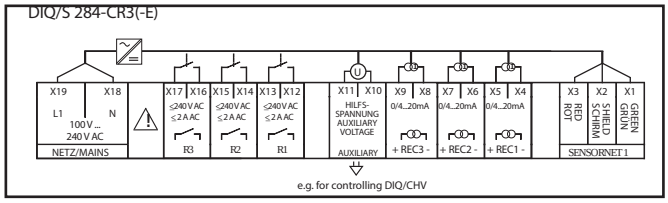
DIQ/S 282/284

Dimensions

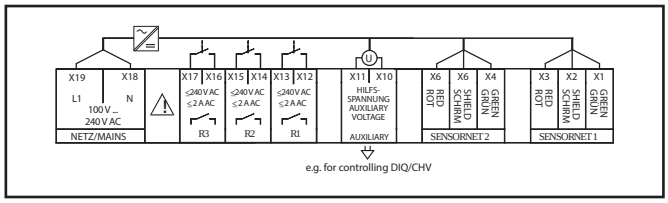


Electrical Connections Monitors System 282/284

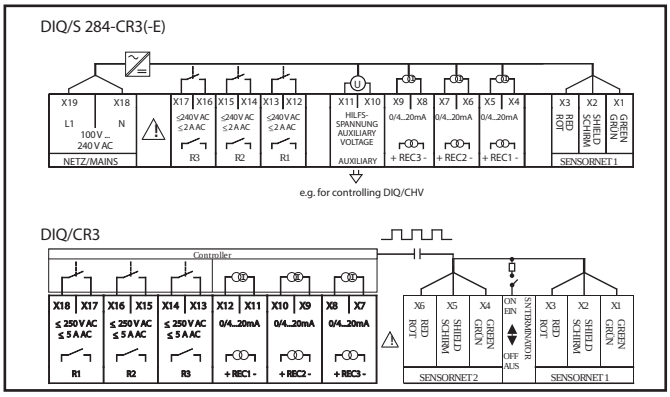
DIQ/S 282-CR3 Order No. 472 110
DIQ/S 282-CR3-E Order No. 472 113



DIQ/S 282-PR Order No. 472 111
DIQ/S 282-MOD Order No. 472 112
DIQ/S 282-EF Order No. 472 114
DIQ/S 284-PR Order No. 472 131
DIQ/S 284-MOD Order No. 472 132
DIQ/S 284-EF Order No. 472 134



DIQ/S 284-CR6 Order No. 472 130
DIQ/S 284-CR6-E Order No. 472 133

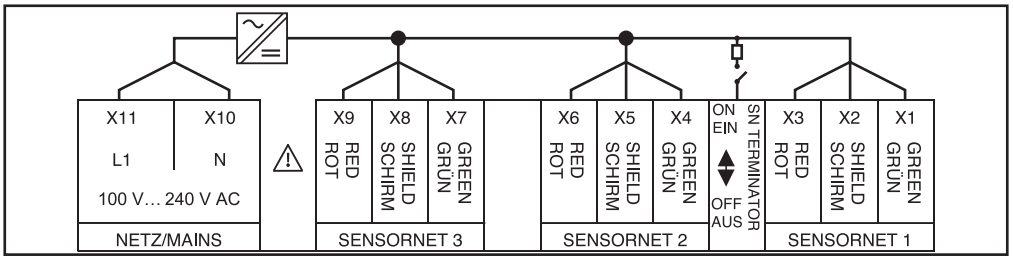


24V versions are identical, except connections X18 and X19

Electrical Connections MIQ/Modules for System Supplement

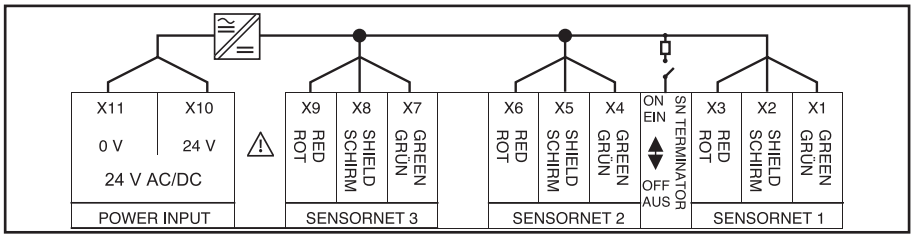
MIQ/PS

Order No. 480 004



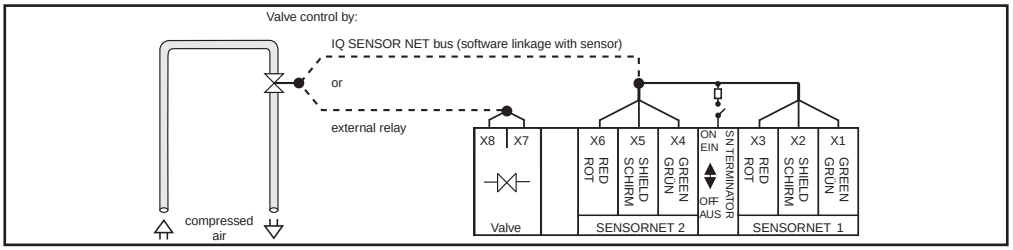
MIQ/24V

Order No. 480 006



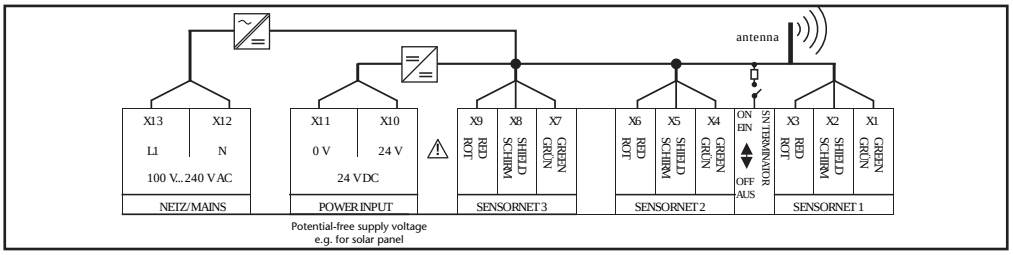
MIQ/CHV PLUS

Order No. 480 018



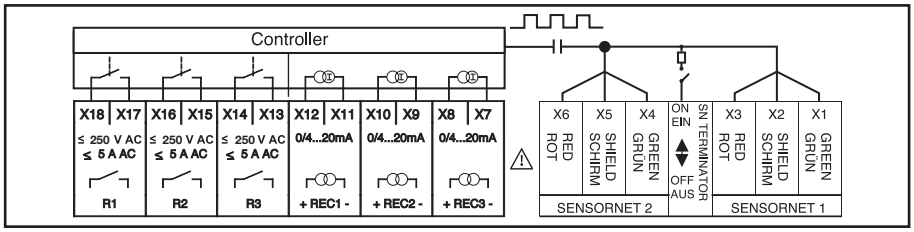
MIQ/WL PS SET

Order No. 480 025



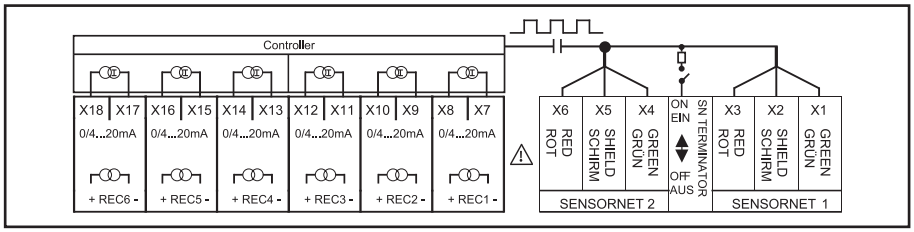
MIQ/CR3

Order No. 480 014



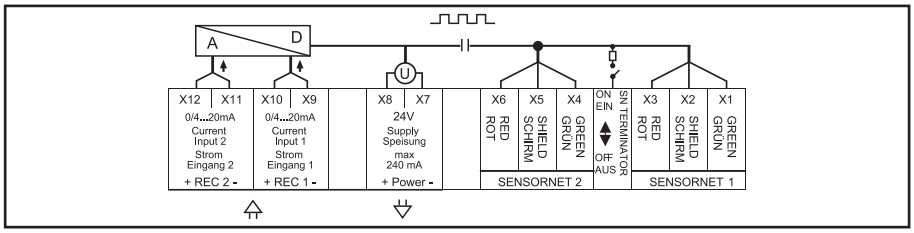
MIQ/C6

Order No. 480 015



MIQ/IC2

Order No. 480 016



Sample Preparation

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
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
Accessories PurCon®/PurCon® IS		
PF 105	Sample bypass unit for direct supply of WTW analyzer with sample, completely mounted; not included: pumps	000670
SET1/PurCon®	Set of pump tubing for PurCon® permeate pump.	810002
AF/PurCon®	Spare air filter for PurCon® compressor LP-60HN.	810005
AF-N/PurCon	Spare air filter for PurCon® compressor AP-60(N).	810015
PCIS-PL5/H	Permeate line 5 m (16.2 ft) for PurCon® IS, with freeze protection.	810065
PCIS-PL10/H	Permeate line 10 m (33 ft) for PurCon® IS, with freeze protection.	810066
PCIS-PL20/H	Permeate line 20 m (65 ft) for PurCon® IS, with freeze protection.	810067
SW/P102	Exchange cutting unit for P102, P102/1 and FGT 615-2 top-and bottom part.	810117
FT/PC	Filter module set (4 pieces) for PurCon® and PurCon® IS.	820065
LSet/PC	Set air tubing for PurCon®.	820066
SL/SET/PC	Piping Set for PurCon®.	820067
FT/PCIS-2	Filter module set (2 pieces) for PurCon® IS.	820068
SLSet/PCIS	Kit of tubes for PurCon® IS (inside of filter modules / controller unit).	820069
VB 105	Overflow vessel with continuous sample flow for analyzer.	830860
P 105	Submersible pump without cutting blade for PurCon®, PF 105 or FPB.	850007
FGT 626-2 = P101	Medium-power submersible pump with cutting blade for supplying wastewater from the aeration stage of wastewater treatment plants.	850008
FGT 615-2 = P102/1	Low-power submersible pump with cutting blade for supplying wastewater from the aeration stage of wastewater treatment plants.	850010
PZ 30 Förderschlauch	30 m (98.4 ft) reinforced PVC fabric tubing for pump P 100 (I.D. 19 mm, s = 4 mm).	850018
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
ADA-PS	GEKA adapter for connecting pumps P105, P101 and P102/1 with hose PZ105.	850115

TD

*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.*

Accessories

Model		Description	Order No.
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
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
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
UA/DS		Spare set of O-ring seals for UA sensor extensions of all lengths	109265
EH/SW		Single electrode holder in seawater design for direct mounting of series 650/690/70X and 70X IQ (SW) sensors	109317
EH/U 170		Sensor holder for direct mounting of series 650/690/70X and 70X IQ sensors to a swing mounting assembly	109320
EH2/U 170		Twin sensor holder for WTW sensors of series 650, 690, 70X and 70X IQ	109323
EH3/U 170		Triple sensor holder for WTW sensors of series 650, 690, 70X and 70X IQ	109325

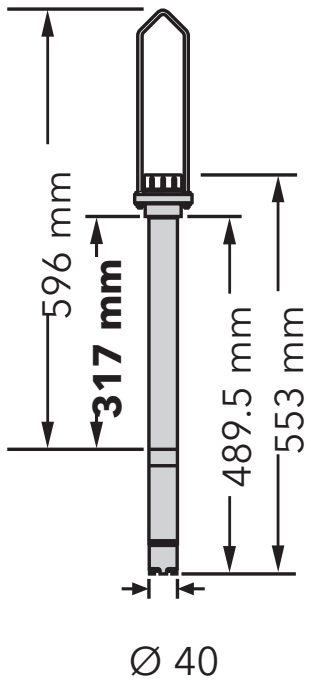
*** UA-SO Sensor extension assembly with user-defined length: AAdditional costs depending on chain length.*

Sensor Extensions

Sensors not included with assemblies.

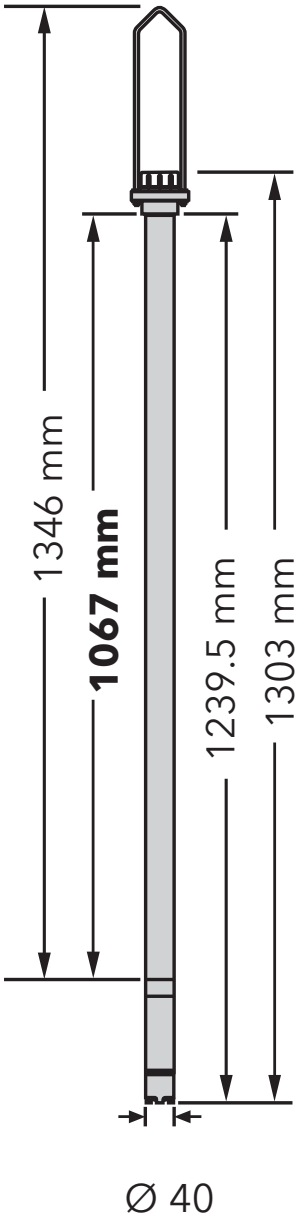
UA 55
Order No. 109 260

Equipped with
oxygen sensor
TriOxmatic® 700



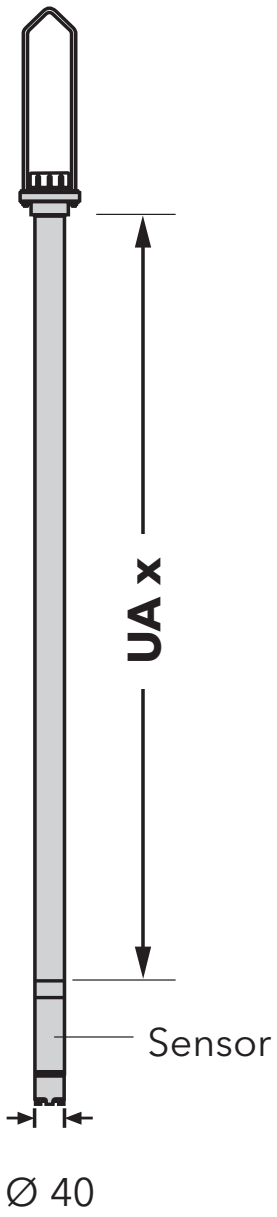
UA 130
Order No. 109 261

Equipped with
oxygen sensor
TriOxmatic® 700



UA-SO
Order No. 109 263V**

Equipped with
oxygen sensor
TriOxmatic® 700



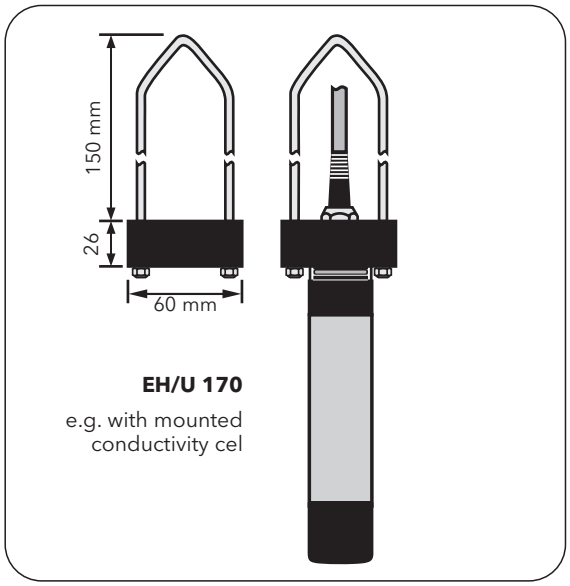
** *UA-SO Sensor extension assembly with user-defined length: Additional costs depending on chain length.*

Sensor Holders

EH/U 170

Order No. 109 320

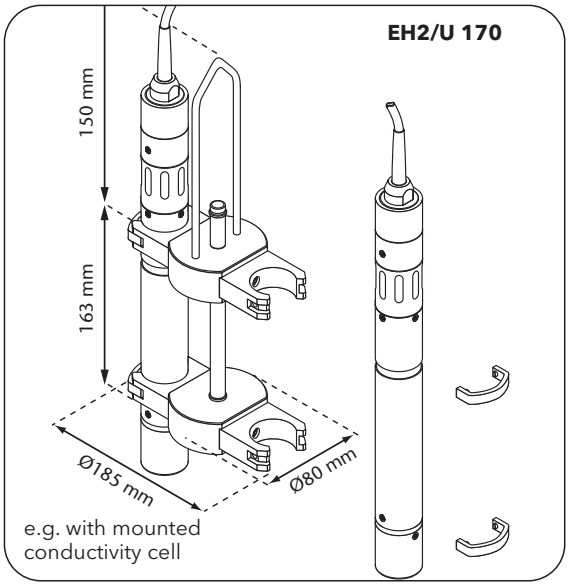
Single sensor holder
Material: POM and stainless steel (1.4571)



EH2/U 170

Order No. 109 323

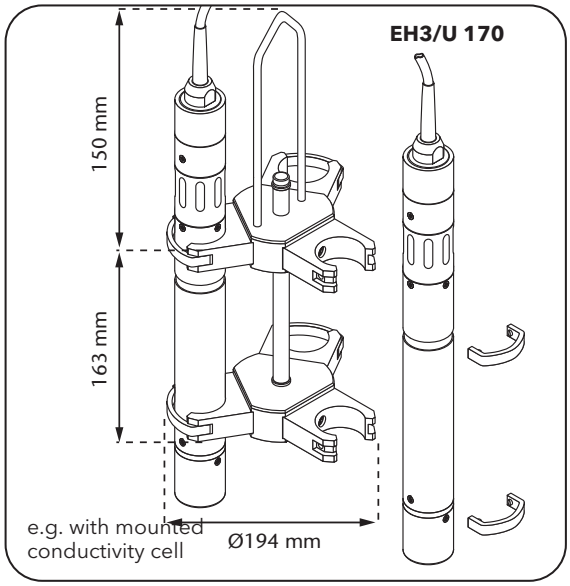
Twin sensor holder
Material: POM and stainless steel (1.4571)



EH3/U 170

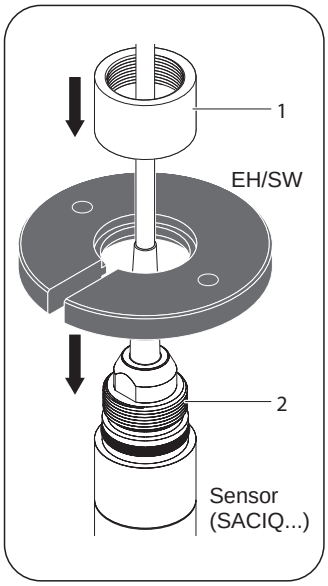
Order No. 109 325

Triple sensor holder
Material: POM and stainless steel (1.4571)



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
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
GWA		Weight ring for S 200 float	109232
Swing-, pendelum- 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 counter-weight for fine adjustment	109270
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
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
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
EH/W 170		Sensor fixture assembly for direct wall mounting of UA armatures and sensors of series 650/690/70X and 70X IQ	109274
Fixtures			
BE/M 170		Masonary 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
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
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
MS/RKH 170		Pipe bracket for installation of a second sensor to a EH/P 170 pendulum mounting assembly (2 pieces required)	109289
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
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, wallplugs and screws	109280
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
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
Controller/Module mounting			
SD/K 170		Sun shield for outdoor installation of junction boxes (e.g. junction box Kl/pH 170) or an IQ SENSOR NET module	109284
MR/SD 170		Mounting kit for attaching sun shields to pipes	109286
MS/SD 170		Mounting kit for SSH/IQ sun shield to a mounting stand	109288
SSH/IQ		Sun shield for mounting of IQ SENSOR NET modules and series 171/170 monitors to mounting stands	109295
PMS/IQ		Kit for panel mounting of IQ SENSOR NET modules	480048
THS/IQ		Kit for top hat rail mounting of IQ SENSOR NET modules	480050
WMS/IQ		Kit for wall mounting of IQ SENSOR NET modules	480052
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
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
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
Chain/Shakle			
S/CH		Shackle for chain fitting	505123
CH/SO	****	Chain per meter.High tensile strength and UV-resistant.	505124

**** *Chain per meter: Additional costs depending on chain length.*

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

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

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

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

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

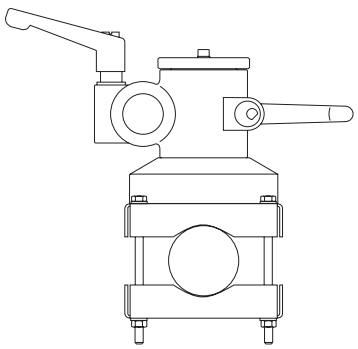
Order No.: 109 295

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

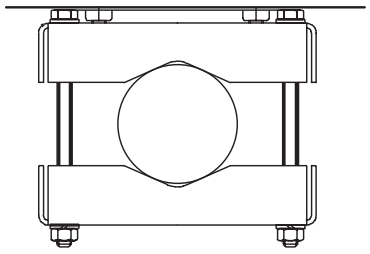
Dimensions	13.03 x 13.54 x 9.45 in. (331 x 344 x 240 mm) (H x W x D)
Material	ASA (Dust gray color)

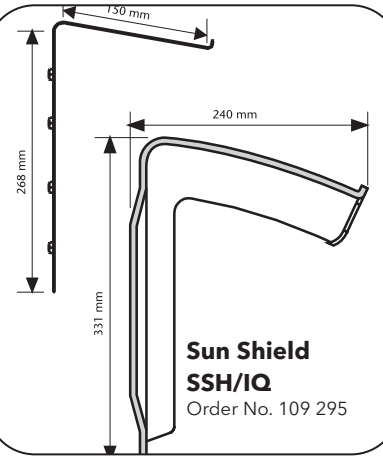
IQ Sensor Net under sun shield SSH/IQ

Swivel/Pivot Clamp Assembly
BE/R 170-D Order No. 109 279



MR/SD 170
Order No. 109 286



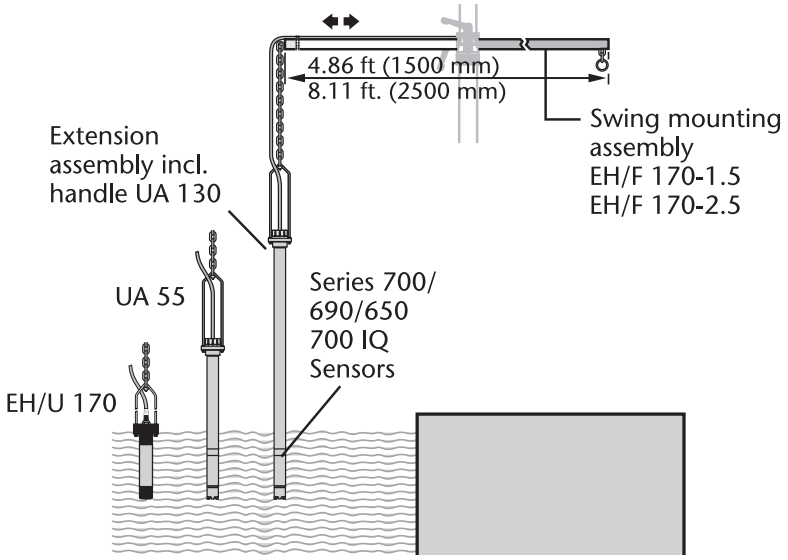


Sun Shield
SSH/IQ
Order No. 109 295

Mounting Hardware Installation Flexibility

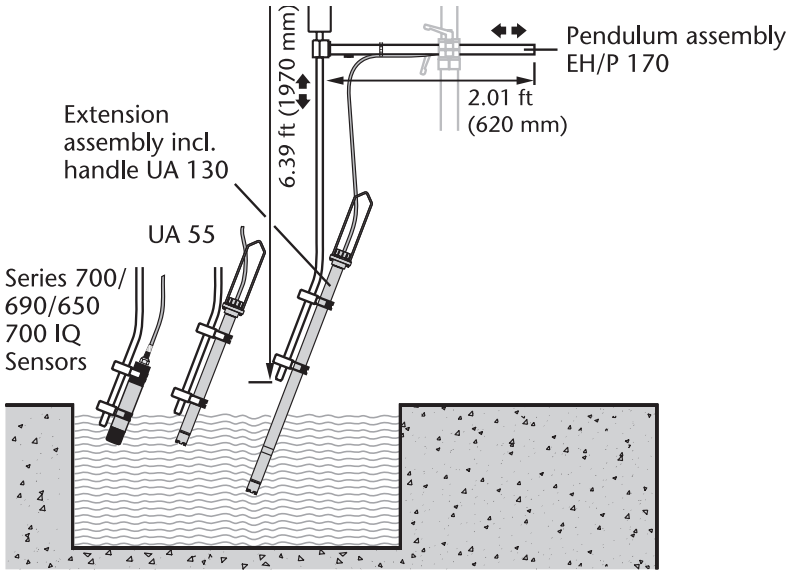
Measurements in Basins

Recommended sensor holding device:
Swing mounting assembly



Measurements in Open Channels

Recommended sensor holding device:
Pendulum assembly



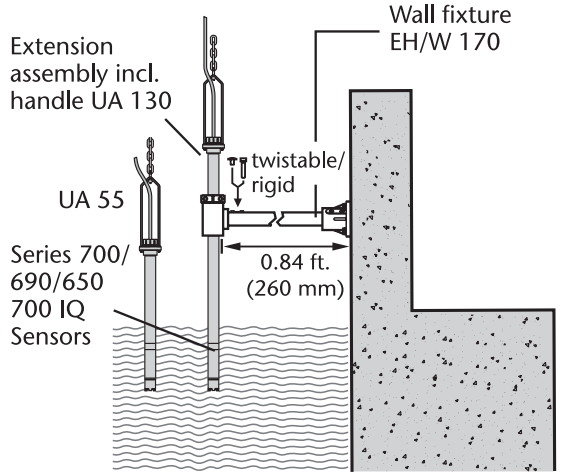
Pendulum rod shown 90 rotated

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 Basins or in Open Channels

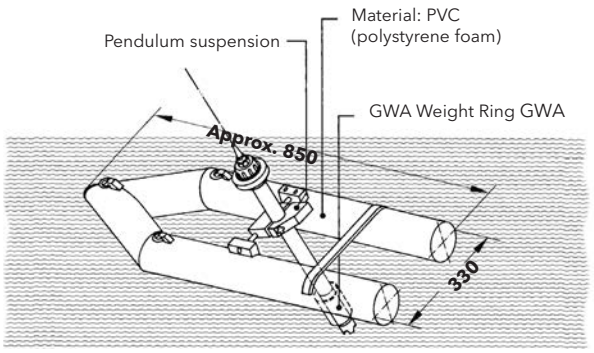
Wall mounting

for universal extension assemblies UA 55/ UA 130



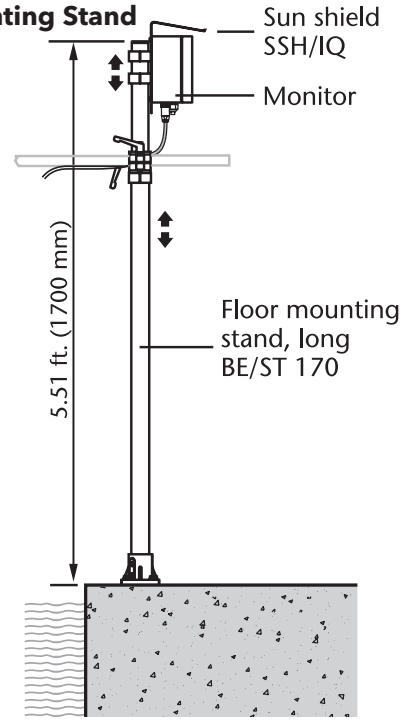
Measurements in very variable water levels or in rivers, lakes, etc.

Sensor Float S 200

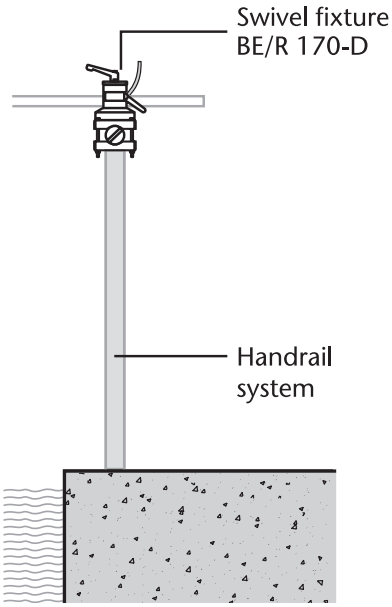


Mounting Stands and Fixtures

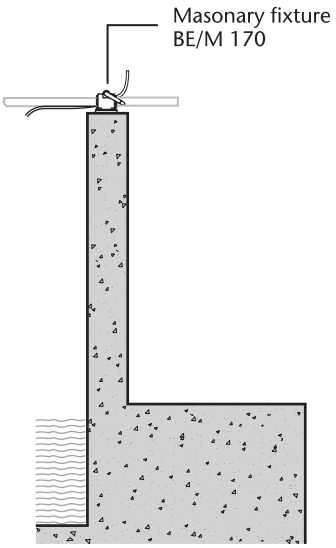
Floor Mounting Stand



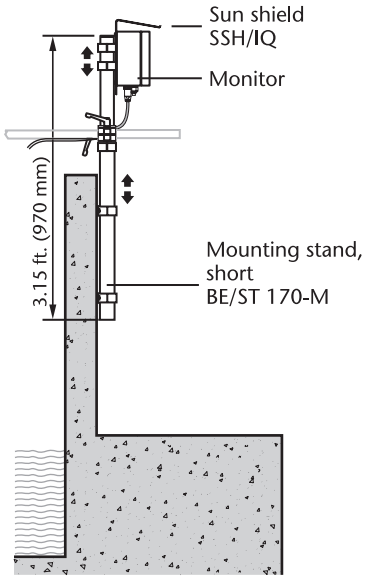
Handrail Mounting (swivel-mounted)



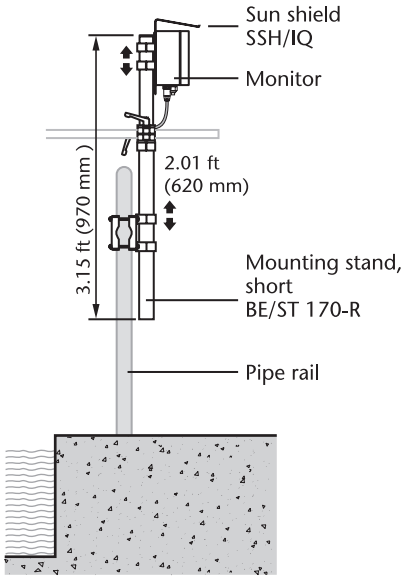
Top-of-Wall Mounting



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

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.

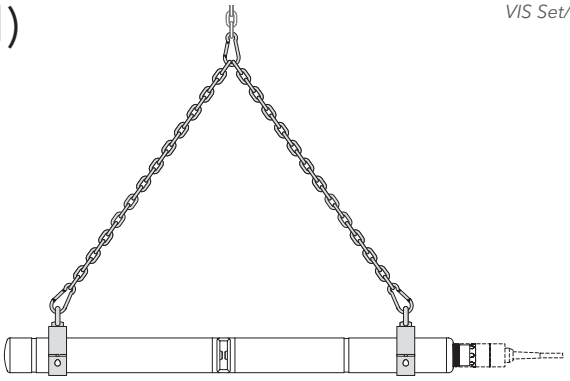
Stand	Length 3.15 ft. (970 mm), diameter 1.97 in. (50 mm)
Material	Stainless steel 1.4301

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
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
EH/SW	Single electrode holder in seawater design for direct mounting of series 650/690/70X and 70X IQ (SW) sensors	109317
EH/U 170	Sensor holder for direct mounting of series 650/690/70X and 70X IQ sensors to a swing mounting assembly	109320
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
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
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
EH/WT-D30	Pipe D30 x 2600 mm. Adaptable to EH/W 171, EH/W 172, IFL-RM, IFL-D	109363
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
EH/W RM	Rail connection for wall mount EH/W 170 to EH/W 173	109366
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
VIS FT-1	Flow-through measurimg cell for spectral UV and UV-VIS sensors, for operation with automatic compressed air cleaning	480080
VIS FT-1/RS	Spare part set for flow-thru measuring cell VIS FT-1	480081
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
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
IFL-E	Deflector armature for IFL 700 IQ and IFL 701 IQ for application with surface skimmers	481206
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

Holder for 60 mm Sensors (Spectral)

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 basings or open channels.



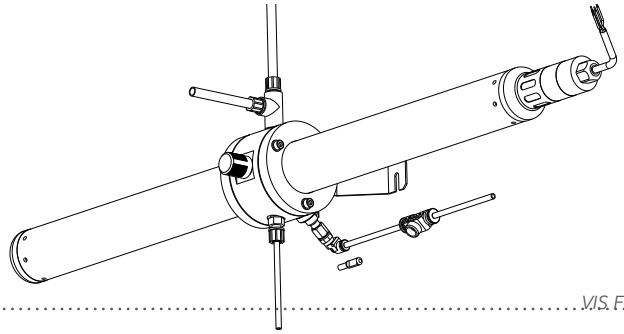
VIS Set/EH

Flow-thru Vessels for 60 mm Sensors (Spectral)

UV-VIS sensors in flow-thru measurement

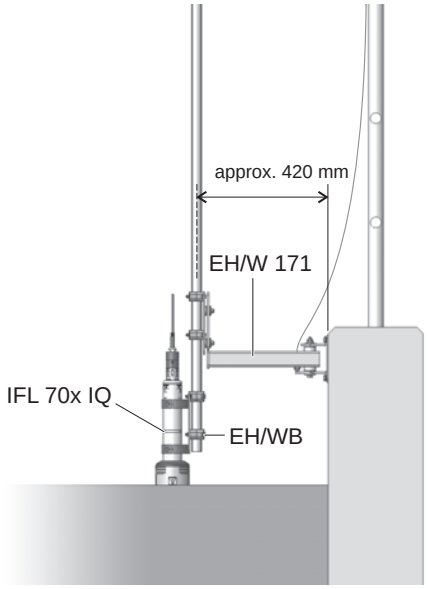
VIS FT-1 Order No. 480 080

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.

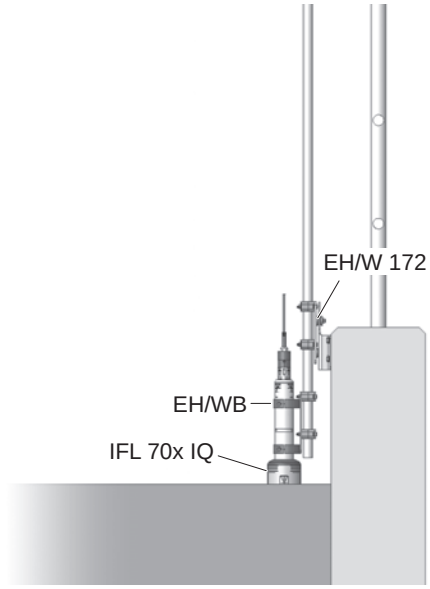


VIS FT-1

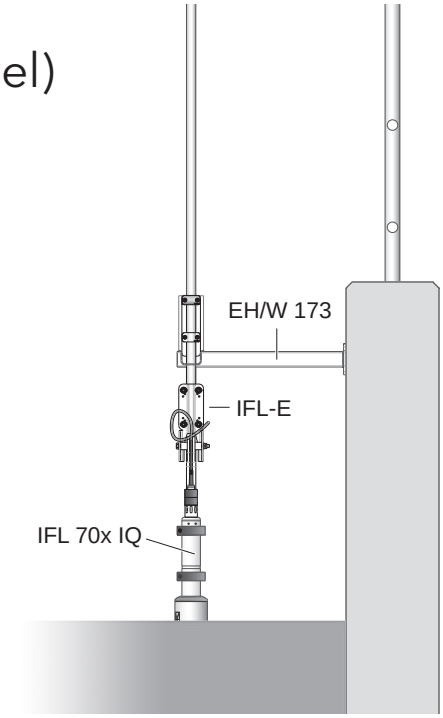
Mounting Systems for 60 mm Sensors (Spectral, UV 700 IQ SAC/NOx, Sludge Level)



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
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
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 (d 63 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
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
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
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
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
D 300/pH	Flow-thru vessel for pH/ORP and temperature measuring	108073
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
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
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	203749

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 pipelines. Please select an adapter from the table "Flow-thru Adapters".

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

ESS 700 VA/10

Order No.: 203 757

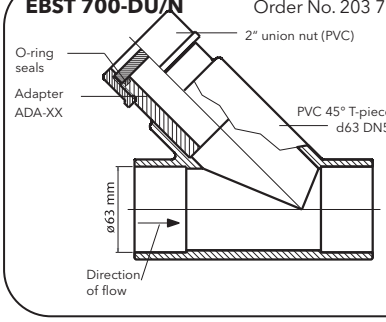
Stainless steel weld-in socket, for measurements in pipelines. Please select an adapter from the table "Flow-thru Adapters".

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

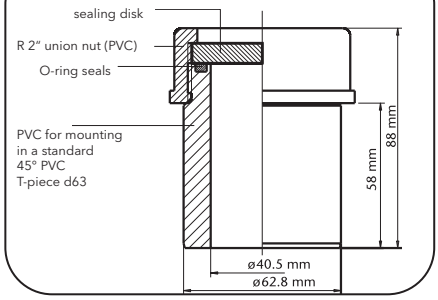
EBST 700-DU/ND

Order No. 203 754

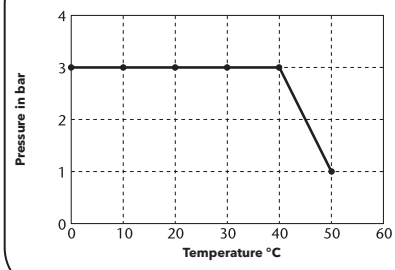
EBST 700-DU/N Order No. 203 753



EBS 700-DU/N Order No. 203 751



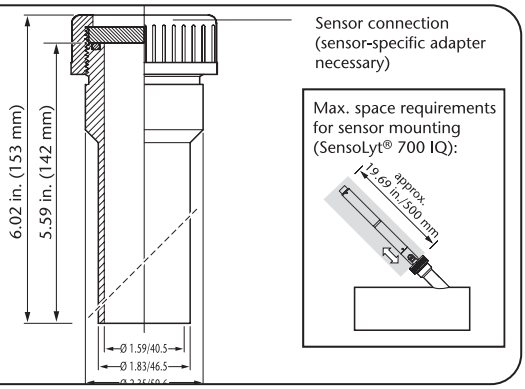
EBST 700-DU/N and EBS 700-DU/N



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

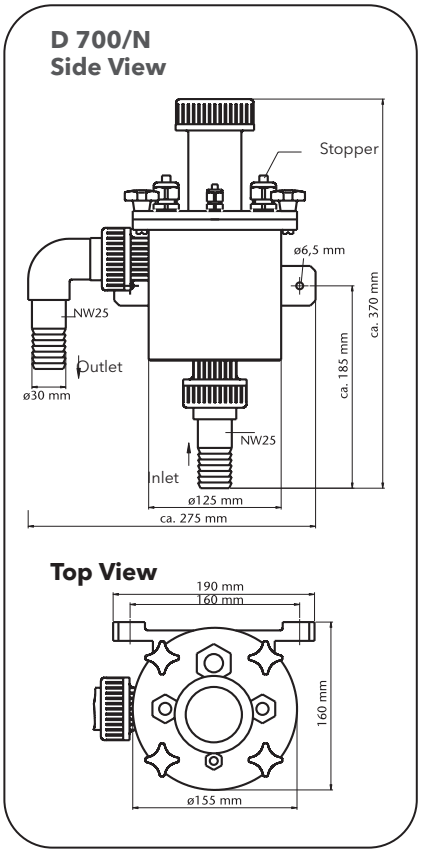
Weld-in socket ESS 700 VA/X

Order No. 203 755
203 757



ESS 700 VA/10

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)

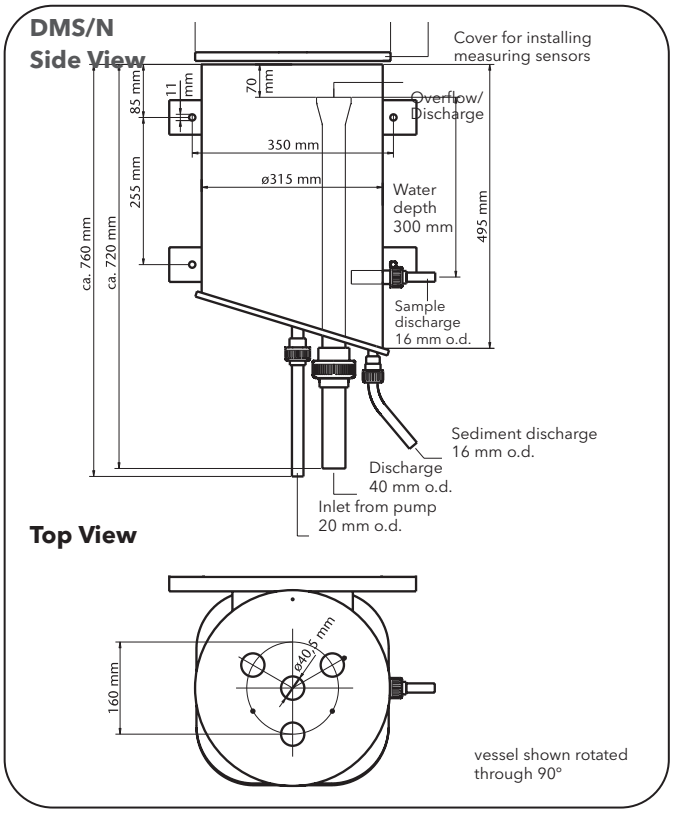
DMS/N

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
ADA-DF 6	Adapter for mounting D.O. sensor TriOxmatic® 702 IQ in flow-thru vessel D 702/N	203771
ADA-DF 7	Adapter for mounting turbidity sensor VisoTurb® 700 IQ in DMS/N flow-through vessel	203773
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
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
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
ADA-DF 14	Adapter for mounting IQ sensor FDO®700 IQ in flow-thru vessel D 700/N	203787
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

Flow-thru Adapters

	Flow-thru Vessels									
	D 700/N Flow-thru vessel Order No.	**D 702/N** Flow-thru vessel Order No.	**DMS/N** Flow-thru vessel Order No.	**EBS 700-DU/N** Flow-thru adapter Order No.	**EBST 700-DU/N** Flow-thru adapter Order No.	**EBST 700-DU/ ND** Flow-thru adapter	**ESS 700 VA/N** Welding socket Order No.	**ESS 700 VA/10 *** Welding socket Order No.	**WA 700/2** Retractable armature Order No.	**WA 700/10 *** Retractable armature Order No.
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 **NitraLyt® *Plus* 700 IQ** **VARiON® *Plus* 700 IQ**	ADA-DF1 203 761 if < 0.2 bar is met		ADA-DF1 203 761 if < 0.2 bar is met	ADA-DF9 203 777 if < 0.2 bar is met	ADA-DF9 203 777 if < 0.2 bar is met	ADA-DF9 203 777 if < 0.2 bar is met	ADA-DF9 203 777 if < 0.2 bar is met			

ADA-DFX — Configuration recommended

Configuration possible (check sensor specs and application)

Configuration not intended

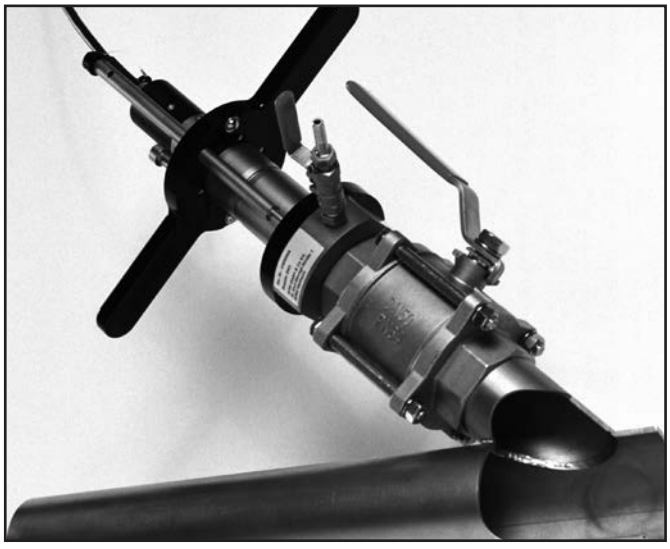
* with electrode SensoLyt® SEA-HP

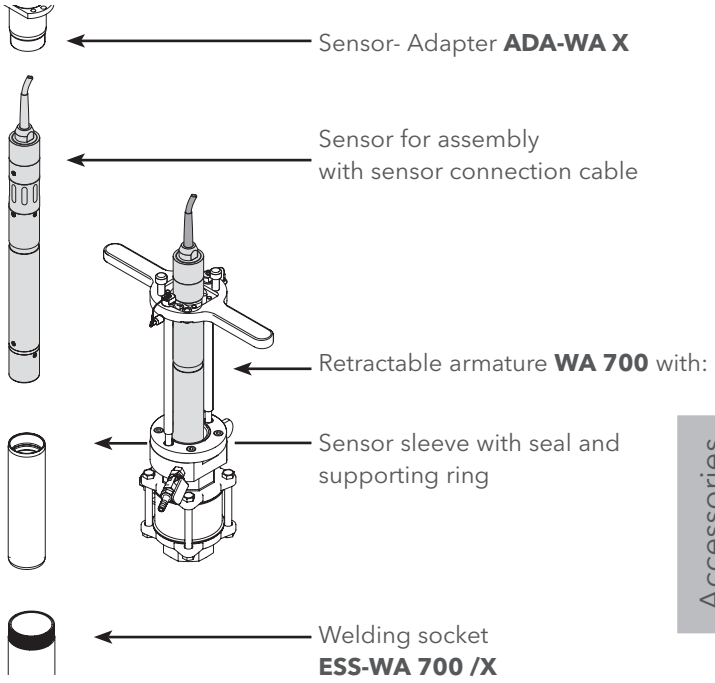
** only for flow-thru vessel D 702/N

Accessories

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
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
ESS-WA 700/ST	Steel (St 33) weld-in socket for WA 700/2 und WA 700/10 retractable armatures	480104
ESS-WA 700/VA	Stainless steel (1.4571) weld-in socket for WA 700/2 und WA 700/10 retractable armatures	480106
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
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
ADA-WA 4	Adapter for mounting of IQ sensor FDO®700 IQ into WA 700/2 and WA 700/10 retractable armatures	480114
WA/BV	Blind plug for weld-in socket fittings ESS-WA 700/ST and ESS-WA 700/VA	480116
WA/Epack	Spare set of O-ring seals for retractable armatures WA 700/2 and WA 700/10	480118

Retractable Armatures

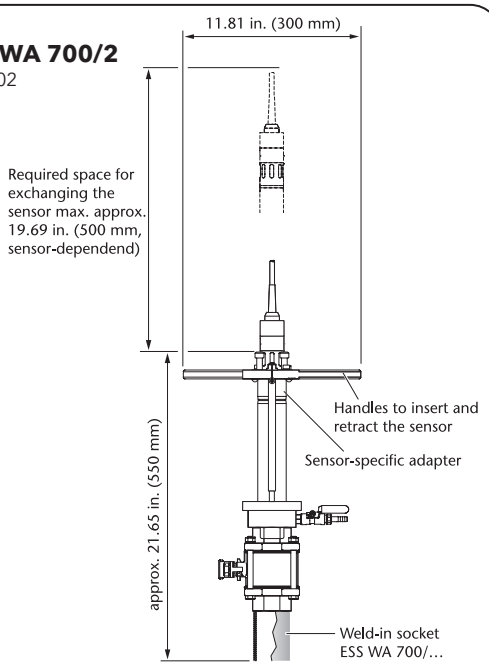




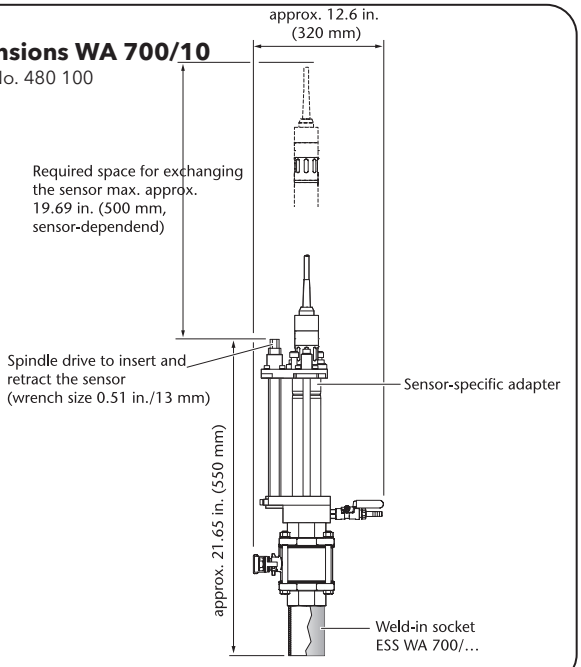
Technical Data Retractable Armatures

	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)	

Dimensions WA 700/2
Order No. 480 102



Dimensions WA 700/10
Order No. 480 100



Model	Description	Order No.
Cleaning System		
DIQ/CHV	Dual IQ/Cleaning Head Valve for automatic air cleaning controlled by a relay, for system 282/284, (relay and compressed air supply external)	472007
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
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
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
AF/Cleaning Air Box	Air intake filter for Cleaning Air Box. For the removal of particles to maintain the compressor.	480026
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
CH	Cleaning head for on-line sensors with 40 mm diameter. Supplied with 15 m (49 ft) compressed air tube.	900107
CH/Epack	Spare part set for cleaning head	900111

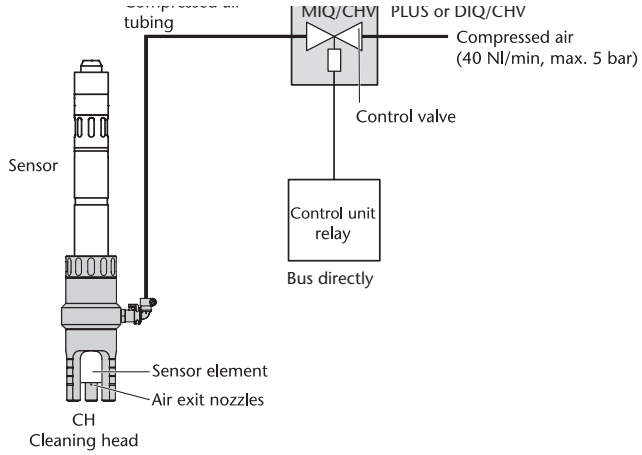
Cleaning System

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)

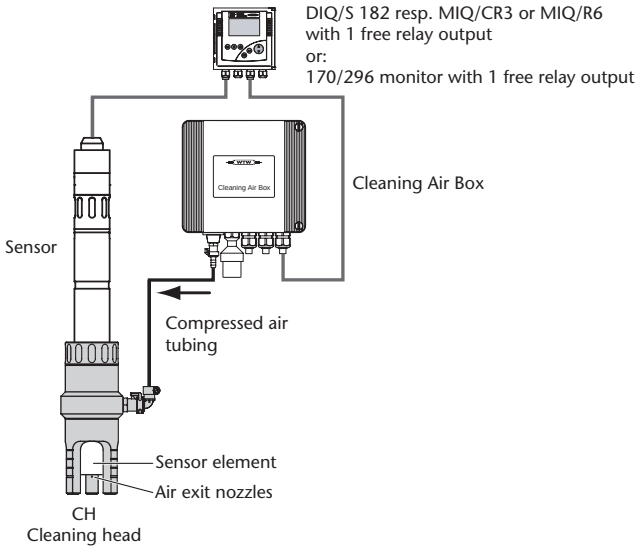


Efficient compressed air cleaning put into practice:

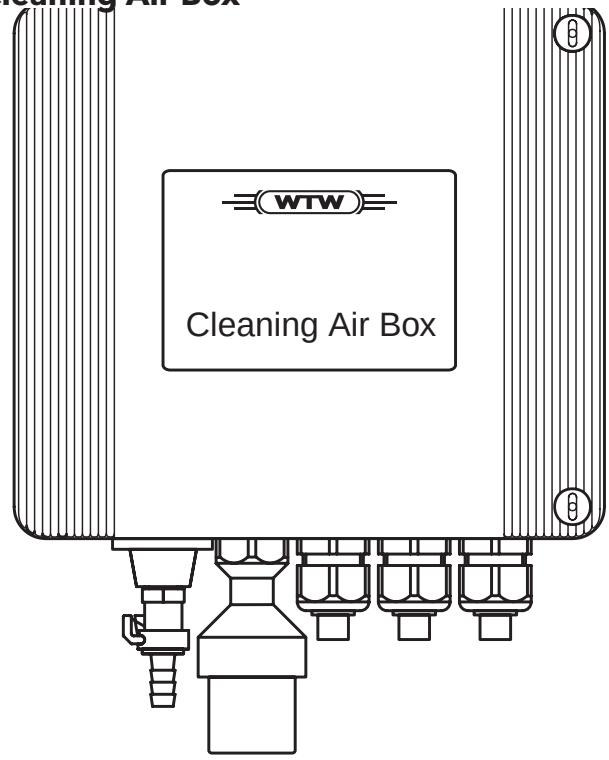
Option 2:

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.
Filtration P 700 IQ		
Filter	Set of 2 filter membranes for filter membrane module FM and module case FM-Case	821972
SL 5	Suction tube with slide, unheated, 5 m (16.2 ft)	821978
FM	Filter membrane module with premounted membrane	821987
Filter/PC	Filter module for housing FM-Case/PC. Suitable for Alyza IQ and P 700 IQ	821940
FM-Case/PC	Housing for filter module Filter/PC. Suitable for Alyza IQ and P 700 IQ	821941
FM-B	Cleaning brush for filter membrane module	821968
FM-Adapter	Adapter for horizontal mounting of filter membrane module FM	821983
Filter-CL	Cleaning case for filter membranes	821984
M-EXT 1.5	Extension for attachement M 1.5. Included: Extension 1.5 m, chain, bracket	821985
M 1.5	Attachment for filtration. Included: Rail 1.5 m (4.9 ft), chain, bracket	821986
RL 20	Permeate return line, unheated, 20 m (65 ft)	821954
RL 115-20	Permeate return line, heated, 115 VAC, 20 m (65 ft)	821955
SL 20	Suction tube with slide, unheated, 20 m (65 ft)	821957
SL 115-20	Suction tube with slide, heated, 115 VAC, 20 m (65 ft)	821959
SL 230-20	Suction tube with slide, heated, 230 VAC, 20 m (65 ft)	821960
RL 10	Permeate return line, unheated, 10 m (32 ft)	821964
RL 115-10	Permeate return line, heated, 115 VAC, 10 m (32 ft)	821965
RL 230-10	Permeate return line, heated, 230 VAC, 10 m (32 ft)	821966
RL 2	Permeate return line, unheated, 2 m (6.5 ft)	821974
RL 115-2	Permeate return line, heated, 115 VAC, 2 m (6.5 ft)	821975
RL 230-2	Permeate return line, heated, 230 VAC, 2 m (6.5 ft)	821976
SL 10	Suction tube with slide, unheated, 10 m (33 ft)	821977
SL 115-10	Suction tube with slide, heated 115 VAC, 10 m (33 ft)	821979
SL 230-10	Suction tube with slide, heated, 230 VAC, 10 m (33 ft)	821980
SL 115-5	Suction tube with slide, heated 115 VAC, 5 m (16.2 ft)	821981
SL 230-5	Suction tube with slide, heated, 230 VAC, 5 m (16.2 ft)	821982
Accessories P 700 IQ		
Filter-REP	Replacement air filter for fan of Alyza IQ and P 700 IQ	821969
ST-BT	Bottle top with tube	821970
ST 0.0	Standard solution 0.0 mg/l PO4-P (zeroing) for P 700 IQ (1.0l)	821971
RM	Rail mount for Alyza IQ and P 700 IQ	821988
WM	Wall mount for Alyza IQ and P 700 IQ	821989
LED	Replacement LED for photometer unit	821990
SM	Stand mount for Alyza IQ and P 700 IQ	821991
T SET B	Set of replacement parts (fittings and spare tubes)	821992B
PT	Replacement pump tube	821993
PM	Replacement pump motor for peristaltic pump	821994
ST 20.0	Standard solution 20.0 mg/l PO4-P for P 700 IQ (1.0 l)	821995
ST 8.0	Standard solution 8.0 mg/l PO4-P for P 700 IQ (1.0 l)	821996
ST 1.6	Standard solution 1.6 mg/l PO4-P for P 700 IQ (1.0 l)	821997
CL 1.0	Cleaning solution for P 700 IQ (1.0 l)	821998
RE 2.5	Reagent for P 700 IQ for orthophosphate measurement (2.5 l)	821999

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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 wilful 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).

Notes

Xylem |'zīləm|

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

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

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

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