



Product Details 2017

FOR THE CATALOG "LABORATORY & FIELD INSTRUMENTATION"

EFFECTIVE FROM JANUARY 1, 2017



a xylem brand

by Order No.	4
Multi-parameter Systems	12
pH	20
ORP	28
ISE	29
Oxygen	34
Conductivity	38
BOD/Respiration	42
Photometers	50
Turbidity	81
Colony Counter	83
Software/Printers	83
Sellout of products	85
Accessories for Data Logger	85
Index	86
General Terms and Conditions	88

by Order No.

Order No.	Model	Pricelist page	Order No.	Model	Pricelist page
102269	TFK 150/E	26	106577	ELY/BR/503/K	32
102270	TFK 150-1,5	26	106580	ISA/K	33
102274	TFK 150	26	106600	Ag/S 500 BNC	31
102280	TFK 325	26	106601	Ag/S 500 DIN	31
103630	SenTix® 20	21	106602	Br 500 BNC	31
103631	SenTix® 21	21	106603	Br 500 DIN	31
103632	SenTix® 21-3	21	106604	Ca 500 BNC	31
103633	SenTix® 22	21	106605	Ca 500 DIN	31
103635	SenTix® 41	21	106606	Ca 500/AT	33
103636	SenTix® 41-3	21	106610	Cl 500 BNC	31
103637	SenTix® 42	21	106611	Cl 500 DIN	31
103639	SenTix® 60	21	106612	CN 500 BNC	31
103640	SenTix® 61	22	106613	CN 500 DIN	31
103641	SenTix® 62	22	106614	Cu 500 BNC	31
103642	SenTix® 81	22	106615	Cu 500 DIN	31
103643	SenTix® 82	22	106616	F 500 BNC	31
103644	SenTix® H	22	106617	F 500 DIN	31
103645	SenTix® Sp	22	106620	K 500 BNC	31
103646	SenTix® Sur	22	106621	K 500 DIN	31
103647	SenTix® Mic	22	106622	K 500/AT	33
103648	SenTix® ORP	28	106624	NO 500 BNC	32
103650	SenTix® HW	22	106625	NO 500 DIN	32
103651	SenTix® 51	22	106626	NO 500/AT	33
103652	SenTix® 52	22	106650	Ag/S 800 BNC	32
103660	SenTix® Mic-D	22	106651	Ag/S 800 DIN	32
103661	SenTix® Mic-B	22	106652	Br 800 BNC	32
103664	SenTix® Ag	28	106653	Br 800 DIN	32
103665	SenTix® Au	28	106654	Ca 800 BNC	32
103666	SenTix® PtR	28	106655	Ca 800 DIN	32
103695	SenTix® 91	22	106656	Ca 800/AT	33
103709	Sensolyt® WQL	85	106660	Cl 800 BNC	32
103710	TA-Sensolyt® SEA	26	106661	Cl 800 DIN	32
103711	TA-Sensolyt® PtA	26	106662	CN 800 BNC	32
103714	Sensolyt® WQL-Pt	85	106663	CN 800 DIN	32
103730	SenTix® Sp-DIN	22	106664	Cu 800 BNC	32
103731	SenTix® HWD	22	106665	Cu 800 DIN	32
103732	SenTix® RJD	22	106666	F 800 BNC	32
103740	SenTix® 940	16, 22	106667	F 800 DIN	32
103741	SenTix® 940-3	16, 22	106670	K 800 BNC	32
103743	SenTix® 945	16, 22	106671	K 800 DIN	32
103748	Sensolyt® 900-P	15, 16, 22	106672	K 800/AT	33
103749	Sensolyt® 900 ORP-P	15, 16, 28	106674	NO 800 BNC	32
103750	SenTix® 950	16, 22	106675	NO 800 DIN	32
103751	SenTix® Micro 900	16, 22	106676	NO 800/AT	33
103752	SenTix® Sp-T 900	16, 22	108060	D 530	26, 41
103753	SenTix® HW-T 900	16, 22	108062	MG/pH	26
103760	SenTix® 940-P	16, 22	108064	MB 50	26, 45
103761	SenTix® 950-P	16, 24	108065	pH-Cap	26
103762	SenTix® 980-P	16, 24	108110	AS/DIN	22, 28
103763	SenTix® ORP-T 900-P	17, 28	108112	AS/DIN - 3	22, 28
103764	SenTix® 945-P	17, 24	108114	AS/BNC	22, 28
103765	SenTix® Micro 900-P	17, 24	108130	ADA S7/IDS	18, 24
103766	SenTix® SPT 900-P	17, 24	108131	ADA 94pH/IDS DIN	18
103767	SenTix® HW-T 900-P	17, 24	108132	ADA 94pH/IDS BNC	18
103780	SenTix® 980	17, 24	108141	IDS WLM-S	New 16, 24, 28, 36, 40
103791	SenTix® ORP-T 900	17, 28	108142	IDS WLM-M	New 16, 24, 28, 36, 40
106375	DX 223 NA	31	108143	WLM Charger	New 16, 24, 28, 36, 40
106395	NH 500/2	31	108144	IDS WLM Kit	New 16, 24, 28, 36, 40
106571	R 503/D	32	108509	ADA-DIN-BNC	26
106575	ELY/BR/503	32	108698	TEP 2	25
106576	ELY/BR/503/N	32	108700	TEP 4	25

Order No.	Model	Pricelist page
108701	TEP 4/10	25
108702	TEP 7	25
108703	TEP 10 Trace	25
108704	TEP 10	25
108706	STP 4	25
108708	STP 7	25
108710	STP 10	25
108722	STP 10 TRACE	25
108725	TEP 7/10	25
108726	TEP 10/10	25
108727	TEP 10 TRACE/10	25
108728	TEP 4/25	25
108729	TEP 7/25	25
108730	TEP 10/25	25
108731	TEP 10 TRACE/25	25
108800	TPL 4	25
108801	TPL 4/10	25
108802	TPL 7	25
108803	TPL 7/10	25
108804	TPL 10	25
108805	TPL 10 Trace	25
108807	TPL 10/10	25
108809	TPL 10 TRACE/10	25
108811	TPL 4/25	25
108812	TPL 7/25	25
108813	TPL 10/25	25
108814	TPL 10 TRACE/25	25
108820	SORT/TPL	24
108822	SORT/TEP/G	24
108823	SORT/TPL/G	24
108824	SORT/TPL/TRACE	25
108825	SORT/TPL/G/TRACE	25
108826	SORT/TEP/TRACE	25
108827	SORT/TEP/G/TRACE	25
108980	SORT/TEP	26
109000	PL 2	26
109020	STAPL-4/7/9	26
109110	PL 4	26
109120	PL 7	26
109130	PL 9	26
109315	EH/40 SW	15
109316	EH/70 SW	15
109400	PL 12	26
109415	SORT/K	25
109648	PEP/pH	26
109705	KCI-250	26
109706	KCI-50	26
109721	SORT/STP/G	26
109735	ELY/ORP/Ag	28
109740	RH 28	28
109809	STH 650	26, 33, 41
109813	STH 9400	18
109818	TFK 325/HC	26
109821	HC 325	26
109823	TFK 325/HC-3	26
109825	WQL-RB	85
109830	QSC KIT	18, 26
120120	ES/Br	33
120140	ES/Cl	33
120160	ES/F	33
120180	ES/I	33
120190	ES/Cu	33
120200	ES/Ca	33
120210	ES/K	33
120220	ES/NO3	33

Order No.	Model	Pricelist page
120222	ES/Na	33
120240	ES/NH4	33
140100	TISAB	33
140110	ISA/FK	33
140120	ISA/Ca	33
140140	ISA/Ag/FI	33
150120	TISAB/NO3	33
150125	ISA/Na	33
150130	MZ/NH3/CN	33
180100	ZBK/NH3/2	33
180130	S/FK	33
1AA110	inoLab® pH 7110	21
1AA112	inoLab® pH 7110 SET 2	21
1AA114	inoLab® pH 7110 SET 4	21
1AA120	inoLab® pH 7110 BNC	21
1AA310	inoLab® pH 7310	21
1AA310P	inoLab® pH 7310P	21
1AA312	inoLab® pH 7310 SET 2	21
1AA314	inoLab® pH 7310 SET 4	21
1AA320	inoLab® pH 7310 BNC	21
1AA320P	inoLab® pH 7310P BNC	21
1BA300	inoLab® Oxi 7310	35, 43
1BA300P	inoLab® Oxi 7310P	35, 43
1BA301	inoLab® Oxi 7310 SET 1	35, 43
1BA304	inoLab® Oxi 7310 SET 4	35, 43
1CA100	inoLab® Cond 7110	39
1CA101	inoLab® Cond 7110 SET 1	39
1CA300	inoLab® Cond 7310	39
1CA300P	inoLab® Cond 7310P	39
1CA301	inoLab® Cond 7310 SET 1	39
1FD350	inoLab® Multi 9310 IDS	14
1FD350P	inoLab® Multi 9310P	14
1FD351	inoLab® Multi 9310 SET 1	14
1FD352	inoLab® Multi 9310 SET 2	14
1FD353	inoLab® Multi 9310 SET 3	14
1FD354	inoLab® Multi 9310 SET 4	14
1FD35C	inoLab® Multi 9310 SET C	14
1FD560	inoLab® Multi 9620 IDS	New 14
1FD56C	inoLab® Multi 9620 SET C	New 14
1FD570	inoLab® Multi 9630 IDS	New 14
1FD57K	inoLab® Multi 9630 SET K	New 14
1GA330	inoLab® pH/ION 7320	31
1GA330P	inoLab® pH/ION 7320P	31
1GA340	inoLab® pH/ION 7320 BNC	31
1GA340P	inoLab® pH/ION 7320P BNC	31
1P21-	CR 2200	51
1P22-	CR 3200	51
1P23-	CR 4200	51
201300	FDO® 925	17, 36
201301	FDO® 925-3	17, 36
201306	FDO® 925-P	15, 17, 36
201310	SC-FDO® 925	17, 36
201311	FDO® Check	17, 36, 37
201312	ADA FDO®/RZ	17, 36
201313	FN FDO®	17, 36
201425	StirrOx® G	36, 43
201533	CellOx® 325	35
201545	CellOx® 325-3	35
201546	CellOx® 325-6	35
201547	CellOx® 325-10	35
201548	CellOx® 325-15	35
201549	CellOx® 325-20	35
201570	DurOx® 325-3	36

Order No.	Model	Pricelist page	Order No.	Model	Pricelist page
201575	SK-D	36	208830	OxiTop®-C	44
201578	ZBK-D	36	208831	OxiTop®-C/B	44
201579	OxiCal® -D	36, 37	209010	ST-OxiTop®	45
201580	SK-325	35	209013	Mark-6	45
202410	ZBK 90/190	37	209016	OxiTop® AD/SK	44
202706	ZBK 325	18, 35	209017	OxiTop® AD	45
202710	ZBK ST	36	209018	OxiTop® SK	45
202725	WP 90/3	35, 37	209019	MG 1,0	45
202738	WP3-ST	36	209020	Dia/600	45
202740	WP3-D	36	209022	DV/MG	45
203680	SF 300	37	209023	MG 2.5	45
203730	D 201	37, 41	209030	MK 22/600	45
203824	RZ 300	35, 43	209040	MK 43/600	46
203826	BR 325	35, 37	209050	MK 97/600	46
205200	RL-AG/Oxi	37	209060	MK 164/600	46
205204	RL-G	35, 36	209070	MK 250/600	46
205210	ELY/N	37	209080	MK 365/600	46
205217	ELY/G	35, 36	209090	MK 432/600	46
205348	Sta-ST	36	209100	PF 600	46
205349	OxiCal®-ST	36, 37	209102	PF45/250	45
205362	OxiCal®-SL	37	209103	PF45/500	45
205400	OxiCal®-CX	37	209104	PF45/1000	45
205700	KF 12	37, 43	209106	MF45/250	45
205710	TS 19	37, 43	209107	MF45/500	45
205711	FD 19/KA	37, 43	209108	MF45/1000	45
205712	FR 19	37, 43	209110	MF45/250/E	45
208130	OxiTop®-C IS 6	43	209111	MF45/500/E	45
208133	OxiTop®-C IS 12	43	209112	MF45/1000/E	45
208140	IS 6	44	209120	RST 600	46
208141	IS 12	44	209130	REF 600	46
208145	IS 6-Var	44	209140	NHP 600	46
208196	OxiTop® Control S 6	44	209142	NKI 500	45
208198	OxiTop® Control S 12	44	209172	GK 600 L	46
208201	OxiTop® Control 6	43	209331	NTH 600	46
208204	OxiTop® Control 12	43	209333	OxiTop® PM	46
208207	OxiTop® OC 110	44	209334	OxiTop® PT	46
208208	OxiTop® OC 100	44	209500	VS 45	45
208210	OxiTop® IS 6	43	209501	DI 45	45
208211	OxiTop® IS 12	43	209502	VS 25	45
208212	OxiTop® IS 12-6	43	209503	SEP 25	45
208220	OxiTop® Control A 6	44	209504	STH 25	45
208222	OxiTop® Control A 12	44	209510	MG 1,0 E	45
208225	OxiTop® Control AN 6	44	209512	MG 2.5 E	45
208227	OxiTop® Control AN 12	44	209520	DV/MG/KL	45
208230	OxiTop® Control B 6	44	209521	DV/MG/DI	45
208231	OxiTop® Control B 6M-2.5	44	250013D	photoLab® S6	50
208232	OxiTop® Control B 6M	44	250022D	photoLab® S6-A	50
208380	TS 606/2-i	45	250024D	photoLab® S12	50
208381	TS 606-G/2-i	45	250026D	photoLab® S12-A	50
208383	TS 606/4-i	45	250040	KK/S6-12	51
208384	TS 606-G/4-i	45	250045	P 3001	84
208385	TS 1006-i	45	250100	TFK CR	51
208386	AK IS6/TS 606/2i	45	250101	AK CR/P	52, 84
208432	OxiTop® Box	45	250102	AK CR/PC	52, 84
208433	OxiTop® Box (115 VAC)	45	250112	RP P 3000	84
208800	OxiTop® GN	43	250113	RP P 3001	84
208810	OxiTop® GB	43	250114	RP P 3001 HQ	84
208812	OxiTop®-6	43	250115	RP 58 HQ	84
208813	OxiTop®-10	43	250203	photoLab® 7100 VIS	50
208814	OxiTop®-2	43	250204	photoLab® 7600 UV-VIS	50
208817	OxiTop® SET-6	43	250211	LM spectral 6100	51
208818	OxiTop® SET-10	44	250212	FC spectral 6/7	51
208819	OxiTop® SET-2	44	250213	PL6-10 SIC	51
208822	OxiTop®-C 6	44	250214	PL6-Brew	51
208823	OxiTop®-C 2	44	250215	LM spectral 7100	51

Order No.	Model	Pricelist page
250301	COD 09772 Hg-free	54-75
250303	COD 14560	54-75
250304	COD 14690	54-75
250306	COD 09773 Hg-free	54-75
250309	COD 14555	54-75
250313	PB 14833	54-75
250314	Cd 14834	54-75
250329	NH4/NH3 14544	54-75
250331	HCHO 14678	54-75
250341	Cr 14552	54-75
250344	CN 14561	54-75
250347	NO3 14764	54-75
250349	Fe 14549	54-75
250351	COD 14691	54-75
250353	Cl 14730	54-75
250358	Ntot 14537	54-75
250359	COD 14895	54-75
250361	Fe 14896	54-75
250401	Sn 14622	54-75
250402	H2O2 14731	54-75
250403	O2 14694	54-75
250404	RH/Ca 14683	54-75
250406	HCHO 14500	54-75
250407	K 14562	54-75
250408	Cu 14553	54-75
250409	Ni 14554	54-75
250410	NO3 14542	54-75
250411	NO3 14556	54-75
250412	Phenol 14551	54-75
250413	PO4 14546	54-75
250414	SO4 14548	54-75
250415	SO4 14564	54-75
250416	SO3 14394	54-75
250417	Zn 14566	54-75
250419	Cl2 00595	54-75
250420	Cl2 00597	54-75
250421	NO3 09713/1	54-75
250422	NO3 14942	54-75
250424	NH4/NH3 14559	54-75
250425	Al 14825	54-75
250426	NH4/NH3 14752/1	54-75
250427	B 14839	54-75
250428	Ca 14815	54-75
250433	Cr 14758	54-75
250435	Fe 14761/1	54-75
250436	Au 14821	54-75
250438	Si 14794	54-75
250439	Fe 14761/2	54-75
250440	NO2 14776/2	54-75
250441	Cu 14767	54-75
250442	Mn 14770/1	54-75
250443	Ni 14785	54-75
250444	NO3 14773	54-75
250445	NO2 14776/1	54-75
250446	PO4 14848/1	54-75
250447	PO4 14842	54-75
250448	Ag 14831	54-75
250449	SO4 14791	54-75
250450	S 14779	54-75
250451	Zn 14832	54-75
250452	Zn 06146	54-75
250460	SL Al 19770	80
250461	SL NH4 19812	80
250462	SL Pb 19776	80
250463	SL B 19500	80

Order No.	Model	Pricelist page
250464	SL Cd 19777	80
250465	SL Ca 19778	80
250466	SL Cl 19897	80
250467	SL Cr 19779	80
250468	SL CrO3 19780	80
250469	SL Fe 19781	80
250470	SL F 19814	80
250473	SL Cu 19786	80
250474	SL Mn 19789	80
250475	SL Ni 19792	80
250476	SL NO3 19811	80
250477	SL NO2 19899	80
250478	SL PO4 19898	80
250479	SL Ag 19797	80
250480	SL SO4 19813	80
250481	SL Zn 19806	80
250482	CombiCheck 10 14676	79
250483	CombiCheck 20 14675	79
250486	CombiCheck 50 14695	79
250487	CombiCheck 60 14696	79
250488	CombiCheck 70 14689	79
250489	CombiCheck 80 14738	79
250490	PhotoCheck 14693	79
250491	Cl 14897/1	54-75
250492	CN 09701	54-75
250493	N2H4 09711	54-75
250494	Nges 14763	54-75
250495	NH4 14739	54-75
250496	Crack-SET 10 14687	52
250497	Crack-SET 20 14963	52
250498	PipeCheck 14962	79
250499	SL TOC 09017	80
250534	LP Spektral	51
250536	LP 6/12	51
250543	ETP/VAR 1000	52
250544	ETP/VAR 5000	52
250545	KHP/Var 1000	52
250546	KHP/Var 5000	52
250567	PSP/Var 5	52
250570	SPB	52
250579	KS 2-12 Acryl	52
250600	REK 20	52
250601	REK 20 Quarz	52
250605	REK 10	52
250606	REK 10 Quarz	52
250607	REC 10 PMMA	52
250614	REK 50	52
250615	REK 50 Quarz	52
250616	REC 50/2	52
250621	RK 14/25	52
250745	AK 3000	84
251100	pHotoFlex® pH	51
251105	pHotoFlex® STD	51
251110	pHotoFlex® Turb	51
251200	pHotoFlex® pH/SET	51
251205	pHotoFlex® STD/SET	51
251210	pHotoFlex® Turb/SET	51
251300	RB Flex/430	51, 82
251301	LS Flex/430	51, 82
251302	LK28-Set	51, 82
251304	FC pHotoFlex®/Turb® 430	51, 82
251306	pHotoFlex® Check	79
251400	Al-1 TP	54-75
251401	Cl2-1 TP	54-75
251402	Cl2-2 TP	54-75

Order No.	Model	Pricelist page	Order No.	Model	Pricelist page
251403	Cu-1 TP	54-75	252044	Na 00885	54-75
251404	Fe-1 TP	54-75	252045	PO4 00798	54-75
251405	Fe-2 TP	54-75	252046	Si 00857	54-75
251406	Fe-2 TP	54-75	252047	Ca 00858	54-75
251407	Mo-1 TP	54-75	252048	F 14598/1	54-75
251408	NH4-1 TP	54-75	252049	Zn 00861	54-75
251409	NO2-1 TP	54-75	252050	pH 01744	54-75
251410	PO4-1 TP	54-75	252051	Cd 01745	54-75
251411	Si-1 TP (LR)	54-75	252053	SO3 01746	54-75
251412	Si-2 TP (HR)	54-75	252054	O3 00607/2	54-75
251413	SO4-1 TP	54-75	252055	CL2 00602/2	54-75
251414	Cl2-3 TP	54-75	252057	MCA 01632	54-75
251415	Cl2-4 TP	54-75	252058	Phenol 00856	54-75
251416	N2H4-1 TR	54-75	252061	n-Ten 01787	54-75
251417	Mn-2 TP	54-75	252062	c-Ten 01764	54-75
251418	Mo-2 TP	54-75	252063	As 01747	54-75
251420	NO2-3 TP	54-75	252066	As-Accessories 73501	52
251421	DEHA-1 TP	54-75	252067	H2O2 18789	54-75
251422	Si-3 TP (HR)	54-75	252068	Al 00594	54-75
251423	SO4-2 TP	54-75	252069	NO2 00609	54-75
251987	PO4-4 TC	54-75	252070	COD C3/25	54-75
251988	PO4-3 TC	54-75	252071	COD C4/25	54-75
251989	PO4-2 TC	54-75	252072	NH4 A6/25	54-75
251990	COD1 TC (LR)	54-75	252073	NO3 N2/25	54-75
251991	COD2 TC(MR)	54-75	252074	NO2 N5/25	54-75
251992	COD3 TC(HR)	54-75	252075	PO4 P6/25	54-75
251993	NO3-1 TC	54-75	252076	PO4 P7/25	54-75
251994	NO2-2 TC	54-75	252077	Cl2 00086 R1	54-75
251995	Ntot1 TC (LR)	54-75	252078	Cl2 00087 R2	54-75
251996	Ntot2 TC (HR)	54-75	252079	Cl2 00088 R3	54-75
251997	NH4-2 TC (LR)	54-75	252080	Cl2 00089 Accessories	54-75
251998	NH4-3 TC (HR)	54-75	252081	NH4/NH3 14752/2	54-75
252010	Cl2 00598/1	54-75	252082	Cl 14897/2	54-75
252011	Cl2 00598/2	54-75	252083	F 14598/2	54-75
252012	Cl2 00599	54-75	252084	Mn 14770/2	54-75
252013	Cl2 00602/1	54-75	252085	NO3 09713/2	54-75
252014	Br2 00605	54-75	252086	PO4 14848/2	54-75
252015	J2 00606	54-75	252087	S/A Cap.pH4.3/CO2 01758	54-75
252016	O3 00607/1	54-75	252089	DEHA 19251	54-75
252017	ClO2 00608	54-75	252090	Mo 19252	54-75
252018	Ntot 00613	54-75	252091	Cyanuric 19253	54-75
252019	NO3 00614	54-75	252092	COD 01796	54-75
252020	K 00615	54-75	252093	COD 01797	54-75
252021	PO4 00616	54-75	252094	F 00809	54-75
252022	SO4 00617	54-75	252095	Vol Acid 01809	54-75
252023	AOX 00675	54-75	252096	Vol.Acid 01749	54-75
252024	AOX 00677	52	252097	Mn 01846	54-75
252025	AOX 00678	52	252102	a-Tensides 02552	New 54-75
252026	AOX 00680	80	252450	SL COD 100	80
252027	NH4 00683	54-75	252451	SL COD 400	80
252028	BSB 00687	54-75	252471	SL K 70230	80
252029	BSB 00688	52	252472	SL Si 70236	80
252030	BSB 00718	80	2A0001	KS ProfilLine pH	26
252032	BSB 14663 SRF	52	2AA110	pH 3110	21
252033	Crack-SET 10-C 14688	52	2AA112	pH 3110 SET 2	21
252034	Pb 09717	54-75	2AA310	pH 3310	21
252035	Mn 00816	54-75	2AA312	pH 3310 SET 2	21
252036	TOC 14878	54-75	252501	CombiCheck 90 18700	New 79
252037	TOC 14879	54-75	252502	CombiCheck 100 18701	New 79
252038	TOC 73500	52	2B0001	KS ProfilLine Oxi	35
252039	GH/Ca 00961	54-75	2BA100	Oxi 3205	35
252040	Mo 00860	54-75	2BA101	Oxi 3205 SET 1	35
252041	B 00826	54-75	2BA300	Oxi 3310	35
252042	Fe 00796	54-75	2BA301	Oxi 3310 SET 1	35
252043	Mg 00815	54-75			

Order No.	Model		Pricelist page
2C0001	KS ProfilLine Cond		41
2CA100	Cond 3110		39
2CA101	Cond 3110 SET 1		39
2CA300	Cond 3310		39
2CA301	Cond 3310 SET 1		39
2EA310	pH/Cond 3320		18
2EA312	pH/Cond 3320 SET 2		18
2F0001	KS MultiLine® 1		18
2F0004	KS MultiLine® 2		18
2FA310	Multi 3320		18
2FA311	Multi 3320 SET 1		18
2FA312	Multi 3320 SET 2		18
2FD350	Multi 3510 IDS		14
2FD351	Multi 3510 IDS SET 1		14
2FD353	Multi 3510 IDS SET 3		14
2FD354	Multi 3510 IDS SET 4		14
2FD35U	Multi 3510 IDS SET KS1		14
2FD560	Multi 3620 IDS	New	15
2FD56C	Multi 3620 IDS SET C	New	15
2FD56G	Multi 3620 IDS SET G	New	15
2FD56U	Multi 3620 IDS SET KS1	New	15
2FD570	Multi 3630 IDS	New	15
2FD57F	Multi 3630 IDS SET F	New	15
2FD57G	Multi 3630 IDS SET G	New	15
2FD57V	Multi 3630 IDS SET KS2	New	15
2GA310	pH/ION 3310		31
300568	USP KIT 2		41
300569	USP KIT 1		41
300572	E-SETTrace		41
300578	KS 100 µS		41
300580	KS 5 µS		41
301252	TetraCon® DU/T		40
301254	TetraCon® DU/TH		40
301310	LTA 1		40
301429	K-LTA		40
301602	TetraCon® 325 S		40
301710	TetraCon® 925		17, 39
301711	TetraCon® 925-3		17, 39
301716	TetraCon® 925-P		15, 17, 40
301718	TetraCon® 925/LV		17, 39
301719	TetraCon® 925/LV-P		17, 40
301720	LR 925/01		17, 40
301721	TetraCon® 925/C		17, 40
301722	LR 925/01-P		17, 40
301900	TetraCon® 325/C		40
301960	TetraCon® 325		39
301961	LR 325/01		39
301962	LR 325/001		39
301963	KKDU 325		40
301970	TetraCon® 325-3		39
301971	TetraCon® 325-6		39
301972	TetraCon® 325-10		39
301973	TetraCon® 325-15		39
301974	TetraCon® 325-20		39
301990	TetraCon® V		39
301992	LR01 V		39
301995	KLE 325		39
302730	D 1/T		41
302750	D01/T		41
302760	D001		41
302870	6R/SET/LAB1		41
401010	ConOx-1.5		18
401020	ConOx-3		18
401040	Con-Modul-1.5		18
401070	ConOx Ox-Modul		18

Order No.	Model		Pricelist page
401152	SensoLyt® MPP-A		19, 26
401205	MPP 930 IDS		15
401206	MPP 930-pH/FDO®/Cond Kit		15
600100	Turb® 550		81
600110	Turb® 550 IR		81
600200	Turb® 555		81
600210	Turb® 555® IR		81
600311	Turb® 355 IR		82
600312	Turb® 355 T		82
600320	Turb® 430 IR		82
600321	Turb® 430 IR / SET		82
600325	Turb® 430 T		82
600326	Turb® 430 T / SET		82
600541	Kal.Kit P Turb® 350 IR		82
600542	Kal.Kit P Turb® 550/550IR		81
600543	Kal.Kit P Turb® 555 IR		81
600544	Kal.Std P 10000 NTU IR		81
600545	Kal.Kit P Turb® 555		81
600546	Kal.Std P 10000 NTU WL		81
600547	Kal.Kit P Turb® 355 IR/T		82
600560	Kal.Kit Turb® 430 IR		51, 82
600561	Kal.Kit Turb® 430 T		82
600600	D-Turb		81
600601	Cell Turb/SET		81
600603	Lamp Turb 550/555-WL		81
600605	Flow-Turb		82
600606	Cell Turb 350 / Set		82
600607	Lamp Turb 550 IR		82
600608	Lamp Turb 555 IR		82
600700	VisoTurb® 900-P		17, 82
600702	Cal-Kit VT900		17, 82
600704	SB VT 900		17, 82
803320	BZG 40		83
803321	BZG/MAG 8 x		83
902754	KOM Labor		84
902758	AK Labor		84
902760	ADA 12V		84
902762	LSdata Flex/430		51, 84
902763	photoLab® color + Data spectral		51, 84
902780	SM Pro		18, 21, 35, 39
902803	STH 320		26, 37, 41
902818	SM 325		21, 35, 39
902837	AK 325/S		84
902841	AK 340/B		84
902842	AK 540/B		44, 84
902867	NT Multirange		19, 26
902880	ADA USB/Ser		84
902881	ADA USB		84
902882	AK USB A-B 3 m		84
902883	AK USB A-Mini		84
903830	A 325/K		36
903831	A 325/S		36
903835	A 925		18
903836	A 925/K		18
903837	A 925/S		18
903838	A 925-P		18, 24, 28, 36, 40
903839	A 925-P/K		18, 24, 28, 36, 40
903840	A 925-P/S		18, 24, 28, 36, 40
903841	A pHLab/K	New	18, 26
903842	D 3Sen	New	19
903850	AS/IDS-1.5		16, 24, 28, 36, 40
903851	AS/IDS-3		16, 24, 28, 36, 40
903852	AS/IDS-6		16, 24, 28, 36, 40

Order No.	Model	Pricelist page
903853	AS/IDS-10	16, 24, 28, 36, 40
903854	AS/IDS-15	16, 24, 28, 37, 40
903855	AS/IDS-20	16, 24, 28, 37, 40
903856	AS/IDS-25	16, 24, 28, 37, 40
903857	AS/IDS-40	16, 24, 28, 37, 40
903858	AS/IDS-60	16, 24, 28, 37, 40
903859	AS/IDS-100	16, 24, 28, 37, 40
903860	KT MPP/SK	16
908370	BPI/IDS	15
908371	BPO/IDS	15

General Technical Data Electrochemistry

	inoLab®				
	Multi 9310 IDS	Multi 9620 IDS	Multi 9630 IDS	7110	7310
Internal Diagnostics	●	●	●	●	●
Splash Proof Housing	●	●	●	●	●
Display	Graphic/ backlit	Colour Graphic/ backlit	LCD	Graphic/ backlit	Graphic/ backlit
Simultaneous Temperature Display	●	●	●	●	●
Temperature Compensation	●	●	●	●	●
TFK 325 Attachable (pH)	-	-	●	●	●
Membrane Keyboard with Defined Pressure Point	●	●	●	●	●
User Selectable Languages	●	●	-	●	●
Memory: Data Sets	4500	10000	-	5000	5000
Real Time Clock	●	●	-	●	●
GLP Supporting Functions	●	●	-	●	●
Identification No.	●	●	-	●	●
Sensor Serial Number, Manually	-	-	-	●	●
Digital Sensor Recognition	●	●	-	-	-
Calibration Record	●	●	-	●	●
Calibration Interval Selectable 1 ... 999 days	●	●	●	●	●
User Administration (via MultiLab® User)	●	●	-	-	-
USB Interface / Mini-USB/A	● / -	● / ●	- / -	● / -	● / -
PC Connection	●	●	-	●	●
Software MultiLab® Importer	●	●	-	●	●
Software Update via Internet	●	●	-	●	●
Firmware Update via Internet	●	●	-	●	●
Built-in Printer Option	●	-	-	●	●
Wireless ready	●	●	-	-	-
Sensor Validation	●, QSC	●, QSC	●	●	●
Dimensions (H x W x D)					
without printer	mm 190x240 x80	240x280 x70	190x240x80		
	in. 7.48x9.45 x3.15	9.45x11.02 x2.76	7.48x9.45x3.15		
with printer	mm 190x290 x80	-	-	190x290x80	
	in. 7.48x11.42 x3.15	-	-	7.48x11.42x3.15	
Weight					
without printer	kg 0.8	2.5	0.8		
	lb. 1.76	5.51	1.76		
with printer	kg 1.0	-	-	1.0	
	lb. 2.20	-	-	2.20	
Universal Power Supply	●	●	●	●	●
Battery Operated (not with Built-in Printer)	●	-	●	●	●
Certificates	cETLus, CE	cETLus, CE	cETLus, CE	cETLus, CE	cETLus, CE
SET Available	●	●	●	●	-
Warranty	3 Years	3 Years	3 Years	3 Years	3 Years

	Portable and Field Meters				
	MultiLine® IDS ^{µB} Multi 3510 IDS	MultiLine® IDS ^{µB} Multi 3620 IDS, Multi 3630 IDS	ProfiLine		
			3110	3310	pH/Cond 3320 Multi 3320
Internal Diagnostics	●	●	●	●	●
Waterproof Housing	IP 67	IP 67	IP 67	IP 67	IP 67
Display	Graphic/ backlit	Color Graphic	LCD	Graphic/ backlit	Graphic/ backlit
Simultaneous Temperature Display	●	●	●	●	●
Temperature Compensation	●	●	●	●	●
TFK 325 Attachable (pH)	-	-	●	●	-
Silicone Keypad	●	●	●	●	●
Touch Screen	-	●	-	-	-
User Selectable Languages	●	●	-	●	●
Memory: Data Sets	4500	10000	-	5000	5000
Real Time Clock	●	●	-	●	●
GLP Supporting Functions	●	●	-	●	●
Identification No.	●	●	-	●	●
Calibration Record	10	10	-	10	●
Calibration Interval Selectable 1 ... 999 days	●	●	-	●	●
User Administration (via MultiLab® User)	●	●	-	-	-
USB Interface / Mini-USB/A	● / -	● / ●	- / -	● / -	● / -
PC Connection	●	●	-	●	●
Software MultiLab® Importer	●	●	-	●	●
Firmware Update via Internet	●	●	-	●	●
Wireless ready	●	●	-	-	-
Sensor Validation	●, QSC	●, QSC	●	●	●
Dimensions mm (in.) (H x W x D)	180x80 x55 (7.09x3.15 x2.17)	180x80 x55 (7.09x3.15 x2.17)	180x80 x55 (7.09x3.15 x2.17)	180x80 x55 (7.09x3.15 x2.17)	180x80 x55 (7.09x3.15 x2.17)
Weight kg (lb.)	0.4 (0.88)	0.4 (0.88)	0.4 (0.88)	0.4 (0.88)	0.4 (0.88)
Universal Power Supply	USB, optional	●	-	USB, optional	USB, optional
Battery Operated/ Rechargeable Batteries	● / ●	recharg. (NiMH)	● / ●	● / ●	● / ●
Certificates	CE/ cETLus	CE/ cETLus	CE/ cETLus	CE/ cETLus	CE/ cETLus
SET Available	●	●	●	●	●
Warranty	3 Years	3 Years	3 Years	3 Years	3 Years

Multi-parameter Systems

Field and Process					
	Digital IDS System ¹ ₂			Conventional	
	Multi 3620 IDS	Multi 3630 IDS	Multi 3510 IDS	pH/Cond 3320	Multi 3320
pH/ORP	All SenTix® 9xx, SensoLyt® 900, and conventional electrodes with S7 plug head via ADA S7/IDS		All SenTix® 9xx, SensoLyt® 900, and conventional electrodes with S7 plug head via ADA S7/IDS	All SenTix® electrodes with DIN plug, ISE series 800 electrodes	
Dissolved oxygen	FDO® 925		FDO® 925		CellOx® 325, DurOx® 325
Conductivity	TetraCon® 925, LR 925/01		TetraCon® 925, LR 925/01	All state-of-the-art WTW conductivity cells	
Turbidity	VisoTurb® 900-P		VisoTurb® 900-P		
Multi-parameter probes		MPP 9x0 IDS			
Routine measurements		○	○	○	
Routine measurements with documentation		●	●	●	
AQS/GLP		●	●	●	
High precision		●	●	●	
Control measurements		●	●	●	
LIMS connection		●	●	●	
Quality Assurance		●	●	●	
Training		○	○	○	
Service		●	●	●	
Laboratory measurements		○	○	○	
Field measurements		●	●	●	
Depth measurements		●	●	-	
Measurements acc. to pharma-copoeia (conductivity/D.O.)		- / ●	- / ●	● / ●	
PC interface		●	●	●	

Laboratory Measurements			
	Digital IDS System ¹ ₂		
	inoLab® Multi 9310 IDS	inoLab® Multi 9620 IDS	inoLab® Multi 9630 IDS
pH/ORP	All SenTix® 9xx and conventional electrodes with S7 plug head via ADA S7/IDS, 9620/9630 additionally via retractable DIN/BNC adapter conventional electrodes also can be connected		
Dissolved oxygen	FDO® 925		
Conductivity	TetraCon® 925, LR 925/01		
Turbidity	VisoTurb® 900-P		
Routine measurements		○	
Routine measurement with documentation		●	
AQA/GLP		●	
High precision		●	
Control measurements		●	
LIMS connection		●	
Quality Assurance		●	
Training		○	
Service		-	
Laboratory measurements		●	
Field measurements		-	
Depth measurements		-	
Measurements acc. to pharmacopoeia (conductivity/D.O.)		- / ●	
PC interface		●	

Conventional						
pH 3110	pH 3310	pH/ION 3310	Oxi 3205	Oxi 3310	Cond 3110	Cond 3310
All SenTix® electrodes with DIN plug		All SenTix® electrodes with DIN plug and ISE electrodes				
			CellOx®, DurOx®			
					KLE 325, TetraCon® 325	All state-of-the-art WTW conductivity cells
●	○	○	●	○	●	○
-	●	●	-	●	-	●
-	●	●	-	●	-	●
-	●	●	-	●	-	●
-	●	●	-	●	-	●
-	●	●	-	●	-	●
-	●	●	-	●	-	●
●	○	○	●	○	●	○
●	●	●	●	●	●	●
-	○	○	-	○	-	○
●	●	●	●	●	●	●
-	-	-	-	-	-	-
-	-	-	-	●	-	●
-	●	●	-	●	-	●

Conventional					
inoLab® pH 7110	inoLab® pH 7310	inoLab® Oxi 7310	inoLab® Cond 7110	inoLab® Cond 7310	inoLab® pH/ION 7320
All SenTix® electrodes with DIN or BNC plug					All SenTix® electrodes with DIN or BNC plug and ISE electrodes
		CellOx® 325, StirrOx® G			
			All state-of-the-art WTW conductivity cells		
●	○	○	●	○	○
-	●	●	-	●	●
-	●	●	-	●	●
-	●	●	-	●	●
-	●	●	-	●	●
-	●	●	-	●	●
-	●	●	-	●	●
●	○	○	●	○	○
-	-	-	-	-	-
●	●	●	●	●	●
-	-	-	-	-	-
-	-	-	-	-	-
-	-	○	●	●	-
-	●	●	-	●	●

Model	Description	Order No.
IDS Laboratory Multi-Parameter Instruments inoLab®		
inoLab® Multi 9310 IDS	Digital multi-parameter benchtop meter for IDS sensors, for measurements / documentation according GLP/AQA. With an universal input for IDS pH/ORP, conductivity and D.O. sensors. Meter with universal power supply, stand and operation manual, software and USB cable.	1FD350
inoLab® Multi 9310P	Digital multi-parameter benchtop for IDS sensors with integrated printer for measurements / documentation according GLP/AQA, with integrated thermal printer. With an universal input for IDS pH/ORP, conductivity and D.O. sensors. Meter with universal power supply, stand, operation manual, software and USB cable.	1FD350P
inoLab® Multi 9310 SET 1	Digital multi-parameter benchtop meter with single universal input for IDS sensors, for measurements / documentation according GLP/AQA. Set including IDS sensor. Meter with universal power supply, stand and operation manual, digital IDS pH electrode SenTix® 940, buffer 4, 7 and 10.01, 3 mol/l KCl, software and USB cable.	1FD351
inoLab® Multi 9310 SET 2	Digital multi-parameter benchtop meter with universal single input for IDS sensors, for measurements / documentation according GLP/AQA. Set including IDS sensor. Meter with universal power supply, stand and operation manual, digital IDS pH electrode SenTix® 980, buffer 4, 7 and 10.01, 3 mol/l KCl, software and USB cable.	1FD352
inoLab® Multi 9310 SET 3	Digital multi-parameter benchtop meter with universal single input for IDS sensors, for measurements / documentation according GLP/AQA. Set including IDS sensor. Meter with universal power supply, stand and operation manual, digital IDS conductivity cell TetraCon® 925, 0.01 mol/l KCl, conductivity standard, software and USB cable.	1FD353
inoLab® Multi 9310 SET 4	Digital multi-parameter benchtop meter with universal single input for IDS sensors, for measurements / documentation according GLP/AQA. Set including IDS sensor. Meter with universal power supply, stand and operation manual, optical IDS D.O. sensor FDO® 925, software and USB cable.	1FD354
inoLab® Multi 9310 SET C	Digital multi-parameter benchtop meter with universal single input for IDS sensors, for measurements / documentation according GLP/AQA. Set including IDS sensors. Meter with universal power supply, stand and operation manual, digital IDS pH electrode SenTix® 940, buffer 4, 7 and 10.01, 3 mol/l KCl, digital IDS conductivity cell TetraCon® 925, 0.01 mol/l KCl, conductivity standard, software and USB cable.	1FD35C
inoLab® Multi 9620 IDS	<i>New</i> Professional digital multi-parameter benchtop meter, wireless ready, for IDS sensors, for measurements/documentation according GLP/AQA. With two universal inputs for pH/mV/ISE, dissolved oxygen, turbidity and conductivity. Meter including universal power supply, stand and operation manual, software and USB cable.	1FD560
inoLab® Multi 9620 SET C	<i>New</i> Professional digital multi-parameter benchtop meter, wireless ready, for IDS sensors, for measurements/documentation according GLP/AQA. With two universal inputs for pH/mV/ISE, dissolved oxygen, turbidity and conductivity. Set including universal power supply, stand and operation manual, digital IDS pH electrode SenTix® 980, buffer 4, 7 and 10.01, 3 mol/l KCl, IDS 4-electrode conductivity cell TetraCon® 925, 0.01 mol/l conductivity standard. Software and USB cable.	1FD56C
inoLab® Multi 9630 IDS	<i>New</i> Professional digital multi-parameter benchtop meter, wireless ready, for IDS sensors, for measurements/documentation according GLP/AQA. With three universal inputs for pH/mV/ISE, dissolved oxygen, turbidity and conductivity. Meter including universal power supply, stand and operation manual, software and USB cable.	1FD570
inoLab® Multi 9630 SET K	<i>New</i> Professional digital multi-parameter benchtop meter, wireless ready, for IDS sensors, for measurements/documentation according GLP/AQA. With three universal inputs for pH/mV/ISE, dissolved oxygen and conductivity. Set including universal power supply, stand and operation manual, digital IDS pH electrode SenTix® 980, buffer 4, 7 and 10.01, 3 mol/l KCl, optical IDS oxygen sensor FDO® 925, IDS 4-electrode conductivity cell TetraCon® 925, software and USB cable.	1FD57K
IDS Portable Multi-Parameter Instruments MultiLine®		
MultiLine® 3510 IDS		
Multi 3510 IDS	Professional multi-parameter handheld for IDS electrodes with single channel input. Wireless ready. With backlit display, built-in data logger and USB interface. Meter in a case including short instruction manual, CD-ROM including software, batteries, USB cable.	2FD350
Multi 3510 IDS SET 1	Professional multi-parameter handheld for IDS electrodes. Wireless ready. With single channel input, backlit display, built-in data logger and USB interface. Meter in case set including SenTix® 940 with short instruction manual, CD-ROM including software, batteries, USB cable.	2FD351
Multi 3510 IDS SET 3	Professional multi-parameter handheld for IDS electrodes. Wireless ready. With single channel input, backlit display, built-in data logger and USB interface. Meter in case set including TetraCon® 925 with short instruction manual, CD-ROM including software, batteries, USB cable.	2FD353
Multi 3510 IDS SET 4	Professional multi-parameter handheld for IDS electrodes. Wireless ready. With single channel input, backlit display, built-in data logger and USB interface. Meter in case set including FDO® 925 with short instruction manual, CD-ROM including software, batteries, USB cable.	2FD354
Multi 3510 IDS SET KS1	Professional digital multi meter for mobile measurement, single channel input, wireless ready, backlit display, including datalogger and USB interfaces, case set without sensor, including QSC-Kit, instruction manual, stand, beaker, buffer 4 and 7, 3 mol/l KCl, conductivity standard, CD-ROM, driver software for USB, batteries, USB cable, armoring SM Pro.	2FD35U

Model	Description	Order No.
MultiLine® 3620 IDS		
Multi 3620 IDS SET C	New Professional digital multi meter for portable field measurement, with dual channel input, wireless ready, color graphic display incl. data logger and USB interfaces. Multi case set with IDS sensors: digital pH electrode SenTix® 940, digital conductivity 4-electrode cell TetraCon® 925, QSC Kit, short instruction manual, stand, beaker, CD-ROM, driver software for USB, rechargeable batteries, cable, universal power supply, armoring SM Pro.	2FD56C
Multi 3620 IDS SET G	New Professional digital multi meter for portable field measurement, with dual channel input, wireless ready, color graphic display incl. data logger and USB interfaces. Field case set with IDS sensors: digital pH electrode SenTix® 940-3, digital conductivity cell TetraCon® 925-3, optical DO probe FDO® 925-3, QSC Kit, short instruction manual, stand, beaker, CD-ROM, driver software for USB, rechargeable batteries, cable, universal power supply, armoring SM Pro.	2FD56G
Multi 3620 IDS SET KS1	New Professional digital multi meter for portable field measurement, with dual channel input, wireless ready, color graphic display incl. data logger and USB interfaces. Case set without sensors, including QSC Kit, short instruction manual, stand, beaker, CD-ROM, driver software for USB, rechargeable batteries, cable, universal power supply, armoring SM Pro.	2FD56U
MultiLine® 3620 IDS		
Multi 3620 IDS	New Professional digital multi meter for portable field measurement, with dual channel input, wireless ready, color graphic display incl. data logger and USB interfaces. Single instrument in a case with short instruction manual, CD-ROM, rechargeable batteries, driver software for USB, cable and universal power supply.	2FD560
MultiLine® 3630 IDS		
Multi 3630 IDS	New Professional digital multi meter for portable field measurement, with triple channel input, wireless ready, color graphic display incl. data logger and USB interfaces. Single instrument in a case with short instruction manual, CD-ROM and rechargeable batteries, driver software for USB, cable, universal power supply, armoring SM Pro.	2FD570
Multi 3630 IDS SET F	New Professional digital multi meter for portable field measurement, with triple channel input, wireless ready, color graphic display incl. data logger and USB interfaces. Field case set with IDS sensors: digital pH electrode SenTix® 940, digital conductivity cell TetraCon® 925, optical DO probe FDO® 925, QSC Kit, short instruction manual, stand, beaker, CD-ROM, driver software for USB, rechargeable batteries, cable, universal power supply, armoring SM Pro.	2FD57F
Multi 3630 IDS SET G	New Professional digital multi meter for portable field measurement, with triple channel input, wireless ready, color graphic display incl. data logger and USB interfaces. Field case set with IDS sensors: digital pH electrode SenTix® 940-3, digital conductivity cell TetraCon® 925-3, optical DO probe FDO® 925-3, QSC Kit, short instruction manual, stand, beaker, CD-ROM, driver software for USB, rechargeable batteries, cable, universal power supply, armoring SM Pro.	2FD57G
Multi 3630 IDS SET KS2	New Professional digital multi meter for mobile measurement, triple channel input, wireless ready, colour graphic display including datalogger and USB interfaces. Field case set without sensor, including QSC-Kit, instruction manual, stand, beaker, buffer 4 and 7, 3 mol/l KCl, conductivity standard, CD-ROM, driver software for USB, rechargeable batteries, USB cable, power supply, armoring SM Pro.	2FD57V
Digital IDS Multi-parameter Sondes and Accessories		
MPP 930 IDS	Digital triple channel multi parameter sonde for IDS sensors. Designed for depth measurements to 100 m, including built-in pressure sensor. Sonde with guard, weight, protection caps for sensor inputs and sonde output. Including instruction manual, CD-ROM with software, 1.5 m connection cable AS/IDS-1.5. Needs Multi 3430/3630 IDS.	401205
MPP 930-pH/FDO®/Cond Kit	Digital triple channel multi parameter sonde for IDS sensors. Designed for depth measurements to 100 m, including built-in pressure sensor. Set for pH, conductivity and D.O. measurement. Sonde with guard, weight, protection caps for sensor inputs and sonde output. Including instruction manual, CD-ROM with software, 1.5 m connection cable AS/IDS-1.5. Set in a carry case including SensoLyt® 900-P, TetraCon® 925-P, FDO® 925-P, accessories. Needs Multi 3430/3630 IDS.	401206
SensoLyt® 900-P	Combined IDS pH electrode with polymer electrolyte and glass shaft, built-in temperature sensor, pressure resistant up to 10 bars. Electrode with waterproof plug head for connection to a MPP IDS or AS/IDS-x	103748
SensoLyt® 900 ORP-P	Combined IDS ORP electrode with polymer electrolyte and glass shaft, built-in temperature sensor, pressure resistant up to 10 bars. Electrode with waterproof plug head for connection to a MPP IDS or AS/IDS-x	103749
EH/40 SW	Replacement electrode holder with titanium bail, fitting for MPP 910 (included with set)	109315
EH/70 SW	Replacement electrode holder with titanium bail, fitting for MPP 930, included with set.	109316
FDO® 925-P	Optical IDS DO sensor for field and lab applications with fast responding beveled membrane, pressure resistant up to 10 bars. Electrode with waterproof plug head for connection to a MPP IDS, wireless module or AS/IDS-x	201306
TetraCon® 925-P	4-electrodes IDS conductivity cell with graphite electrodes, epoxy shaft, cell constant 0.475 cm ⁻¹ . Electrode with waterproof plug head for connection to a MPP IDS, wireless module or AS/IDS-x.	301716
BPI/IDS	Coded protection cap for IDS sensor input	908370
BPO/IDS	Replacement protection cap for sonde output	908371

Model	Description	Order No.
IDS Wireless Modules for IDS Plug head Sensors		
IDS WLM-S	<i>New</i> Wireless module for IDS plug head sensors for radio transmission of measurement values. Includes rechargeable LiPo-battery. Splash water protected according IP 43.	108141
IDS WLM-M	<i>New</i> Wireless module for connecting to MultiLine® 3310/3510/36x0 IDS, inoLab® Multi IDS and MonoLine. Connects up to three sensors at the same time (depends on meter capabilities).	108142
WLM Charger	<i>New</i> Charger without external power supply for charging IDS WLM-S modules, with USB plug, cascadable, with USB cable. For charging via PC or external USB power supply.	108143
IDS WLM Kit	<i>New</i> Kit consisting of one of each IDS WLM-S, IDS WLM-M and WLM Charger including USB power supply for wireless operation of IDS plug head sensors.	108144
Cables for IDS Plug Head Sensors and MPP IDS		
AS/IDS-1.5	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 1.5 m.	903850
AS/IDS-3	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 3 m.	903851
AS/IDS-6	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 6 m.	903852
AS/IDS-10	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 10 m.	903853
AS/IDS-15	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 15 m.	903854
AS/IDS-20	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 20 m.	903855
AS/IDS-25	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 25 m. Stored on reel (included)	903856
AS/IDS-40	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 40 m. Stored on reel (included)	903857
AS/IDS-60	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 60 m. Stored on reel (included)	903858
AS/IDS-100	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 100 m. Stored on reel (included)	903859
KT MPP/SK	Cable reel with sliding contacts for AS/IDS-x, without cable, with connectors.	903860
IDS pH/ORP Electrodes		
SenTix® HW-T 900	IDS precision pH combination electrode with split ring junction for low-ionic media, length 165 mm with integrated temperature sensor, QSC function, memory for 10 calibrations, serial number, 1.5 m cable with waterproof digital connector for MultiLine®, MonoLine or inoLab® IDS.	103753
SenTix® 940	IDS pH combination electrode with gel electrolyte, plastic shaft and integrated temperature sensor. QSC function. Electrode incl. 1.5 m fixed cable with waterproof digital connector. For MultiLine®, MonoLine, inoLab® IDS.	103740
SenTix® 940-3	IDS pH combination electrode with gel electrolyte, plastic shaft and integrated temperature sensor. QSC function. Electrode incl. 3 m fixed cable with waterproof digital connector. For MultiLine® MonoLine, and inoLab® IDS.	103741
SenTix® 945	Low maintenance IDS pH electrode with gel electrolyte, glass shaft, three ceramic junctions, and integrated temperature sensor, 3 junctions. QSC function, memory for 10 calibrations. Electrode incl. 1.5 m fixed cable with waterproof digital connector for MultiLine, MonoLine und inoLab® IDS.	103743
Sensolyt® 900-P	Combined IDS pH electrode with polymer electrolyte and glass shaft, built-in temperature sensor, pressure resistant up to 10 bars. Electrode with waterproof plug head for connection to a MPP IDS or AS/IDS-x	103748
Sensolyt® 900 ORP-P	Combined IDS ORP electrode with polymer electrolyte and glass shaft, built-in temperature sensor, pressure resistant up to 10 bars. Electrode with waterproof plug head for connection to a MPP IDS or AS/IDS-x	103749
SenTix® 950	IDS pH combination electrode with liquid electrolyte, plastic shaft and integrated temperature sensor. QSC function. Electrode including 1.5 m fixed cable with waterproof digital connector, dropper vial with 3 mol/l KCl.	103750
SenTix® Micro 900	IDS pH micro electrode, for measurement of small volumina and in small vessels, diameter 5 mm, with integrated temperature sensor, QSC function, memory for 10 calibrations, 1,5 m cable with digital connector for MultiLine®, MonoLine or inoLab® IDS.	103751
SenTix® Sp-T 900	IDS pH electrode for penetration measurement for measurement of meat, fruit or cheese with integrated temperature sensor, QSC function, memory for 10 calibrations serial number, 1.5 m cable with waterproof digital connector for MultiLine®, MonoLine or inoLab® IDS.	103752
SenTix® 940-P	IDS pH combination electrode with gel electrolyte, plastic shaft and integrated temperature sensor. QSC function. Electrode with plug head for AS IDS/1.5 cable or wireless module.	103760
SenTix® 950-P	IDS pH combination electrode with liquid (3 mol/l KCl) electrolyte, plastic shaft and integrated temperature sensor. QSC function. Electrode with plug head for AS IDS/1.5 cable or wireless module.	103761
SenTix® 980-P	IDS pH combination electrode with liquid electrolyte (3 mol/l KCl), glass shaft and integrated temperature sensor. QSC function. Electrode with plug head for AS IDS/1.5 cable or wireless module.	103762

Model	Description	Order No.
SenTix® ORP-T 900-P	Platinum IDS ORP electrode with liquid electrolyte (3 mol/l KCl) and glass shaft, temperature sensor. Electrode with plug head for AS IDS/1.5 cable or wireless module.	103763
SenTix® 945-P	Low maintenance IDS pH electrode with gel electrolyte, glass shaft, three ceramic junctions, and integrated temperature sensor, 3 junctions. QSC function, memory for 10 calibrations. Electrode with plug head for AS IDS/1.5 cable or wireless module.	103764
SenTix® Micro 900-P	IDS pH micro electrode, for measurement of small volumina and in small vessels, diameter 5 mm, with integrated temperature sensor, QSC function, memory for 10 calibrations. Electrode with plug head for AS IDS/1.5 cable or wireless module.	103765
SenTix® SP-T 900-P	IDS pH electrode for penetration measurement for measurement of meat, fruit or cheese with integrated temperature sensor, QSC function, memory for 10 calibrations, serial number. Electrode with plug head for AS IDS/1.5 cable or wireless module.	103766
SenTix® HW-T 900-P	Precision pH combination electrode with split ring junction for low-ionic media, length 165 mm with integrated temperature sensor, QSC function, memory for 10 calibrations, serial number. Electrode with plug head for AS IDS/1.5 cable or wireless module.	103767
SenTix® 980	IDS pH combination electrode with liquid electrolyte, glass shaft and integrated temperature sensor. QSC function. Electrode incl. 1.5 m fixed cable with waterproof digital connector, dropper vial with 3 mol/l KCl.	103780
SenTix® ORP-T 900	Platinum IDS ORP electrode with liquid electrolyte and glass shaft, temperature sensor. Electrode incl. 1.5 m fixed cable with waterproof digital connector, for MultiLine®, MonoLine and inoLab® IDS, dropper vial with 3 mol/l KCl.	103791
FDO®		
FDO® 925	Optical IDS DO sensor for field and laboratory applications with fast responding bevelled membrane, with 1.5 m (4.9 ft) fixed cable with waterproof digital connector.	201300
FDO® 925-3	Optical IDS DO sensor for field and laboratory applications with fast responding bevelled membrane, with 3 m (9.7 ft) fixed cable with waterproof digital connector.	201301
FDO® 925-P	Optical IDS DO sensor for field and lab applications with fast responding beveled membrane, pressure resistant up to 10 bars. Electrode with waterproof plug head for connection to a MPP IDS, wireless module or AS/IDS-x	201306
SC-FDO® 925	Exchange cap for FDO® 925 type sensors	201310
FDO® Check	Replacement check and calibration vessel for FDO® 925 type sensors	201311
ADA FDO®/RZ	Replacement stainless steel adapter for mounting a RZ 300 magnetic stirrer paddle for BOD measurement on a FDO® 925, also suitable as membrane protection.	201312
FN FDO®	Cap nut for fixing the membrane cap of a FDO® 925 instead of standard ADA FDO®/RZ for special applications in viscous liquids or flow-through vessels.	201313
IDS Conductivity Cells		
TetraCon® 925	4-electrode-IDS conductivity cell with graphite electrodes, epoxy shaft, cell constant 0.475 cm ⁻¹ , with 1.5 m fixed cable with waterproof digital connector.	301710
TetraCon® 925-3	4-electrode-IDS conductivity cell with graphite electrodes, epoxy shaft, cell constant 0.475 cm ⁻¹ , with 3 m fixed cable with waterproof digital connector.	301711
TetraCon® 925-P	4-electrodes IDS conductivity cell with graphite electrodes, epoxy shaft, cell constant 0.475 cm ⁻¹ . Electrode with waterproof plug head for connection to a MPP IDS, wireless module or AS/IDS-x.	301716
TetraCon® 925/LV	4-electrode-IDS conductivity cell with graphite electrodes, epoxy shaft, cell constant 0.469 cm ⁻¹ , fork design. With 1.5 m fixed cable with waterproof digital connector. For measurement of small volumes (about 2.5 ml) and viscous samples.	301718
TetraCon® 925/LV-P	4-electrode-IDS conductivity cell with graphite electrodes, epoxy shaft, cell constant 0.469 cm ⁻¹ , fork design. with plug head for AS IDS/x cables or wireless module. For measurement of small volumes (about 2.5 ml) and viscous samples.	301719
LR 925/01	2-electrode-IDS conductivity cell with stainless steel electrodes for ultra pure water, cell constant 0.1 cm ⁻¹ , with 1.5 m fixed cable with waterproof digital connector, glass flow trough vessel.	301720
TetraCon® 925/C	4-electrode-IDS conductivity cell with graphite electrodes, epoxy shaft, PEEK head for use in acid contaminated environments, cell constant 0.475 cm ⁻¹ , with 1.5 m fixed cable with waterproof digital connector for MultiLine®, MonoLine or inoLab® IDS.	301721
LR 925/01-P	2-electrode-IDS conductivity cell with stainless steel electrodes, for ultrapure water, cell constant 0.1 cm ⁻¹ , with plug head for AS/IDS-x cable or wireless module, glass flow-through vessel.	301722
IDS Turbidity Sensor		
VisoTurb® 900-P	IDS IR turbidity sensor, titanium shaft, 0 bis 4000 FNU, pressure resistant up to 10 bars, with waterproof plug head for connection with cable AS/IDS-x.	600700
Cal-Kit VT900	Calibration kit for VisoTurb® 900-P including each 250 ml turbidity standard 124 FNU and 1010 FNU and empty bottle for zero point calibration, (please see manual).	600702
SB VT 900	Sample bottle for IDS turbidity sensor, volume 500 ml.	600704

Model	Description	Order No.
Accessories for MultiLine® IDS/inoLab® IDS		
STH 9400	Stand including electrode holder for right or left mounting, for inoLab 94x0	109813
QSC KIT	Initial calibration kit for IDS pH electrodes. Box with 3 ampoules, pH 4.01, pH 6.86, pH 9.18.	109830
ADA S7/IDS	Adapter cable 1.5 m with digital connector, for connecting a SenTix® combination electrode with S7 plug head to a MultiLine® or inoLab® IDS.	108130
A pHLab/K	<i>New</i> Plastic armoring for protecting pH and ORP electrodes with glass shaft and length 120 mm in the field and in a plant.	903841
ADA 94pH/IDS DIN	pH/mV module for inoLab® Multi 9x20/30 IDS for pH/ORP/ISE electrodes with DIN- and 4 mm banana plug. Including mounting accessories.	108131
ADA 94pH/IDS BNC	pH/mV module for inoLab® Multi 9x20/30 IDS for pH/ORP/ISE electrodes with BNC- and 4 mm banana plug. Including mounting accessories.	108132
KS MultiLine® 1	Case set for MultiLine® multi-parameter systems. Without meter and sensors, incl. armoring SM Pro, buffer STP 4 and STP 7, stand, beaker, conductivity standard 1413 µS/cm at 25° C.	2F0001
KS MultiLine® 2	Case set for MultiLine® multi-parameter systems with 3 IDS sensors (large field case). Without meter and sensors, incl. armoring SM Pro, buffer STP 4 and STP 7, stand, beaker, conductivity standard 1413 µS/cm at 25° C.	2F0004
SM Pro	Shock absorbing rubber elastic protective armoring for ProfiLine and MultiLine® portable meters.	902780
A 925	Head for armoring an IDS field sensor, without guard (A 325/K or /S already existing) suitable for TetraCon® 925, SensoLyt® 900, FDO® 925.	903835
A 925/K	Armor for IDS field sensors including guard, suitable for TetraCon® 925, SensoLyt® 900, FDO® 925, material: POM.	903836
A 925/S	Armor for IDS field sensors including guard, suitable for TetraCon® 925, SensoLyt® 900, FDO® 925, material: POM, stainless steel.	903837
A 925-P	Armor for IDS field sensors without guard designed for TetraCon® 925-P, SensoLyt® 900-P, SensoLyt® ORP 900-P, FDO® 925-P. material: POM	903838
A 925-P/K	Armor for IDS field sensors including guard designed for TetraCon® 925-P, SensoLyt® 900-P, SensoLyt® ORP 900-P, FDO® 925-P, VisoTurb® 900-P, material: POM.	903839
A 925-P/S	Armor for IDS field sensors including guard designed for TetraCon® 925-P, SensoLyt® 900-P, SensoLyt® ORP 900-P, FDO® 925-P. Guard: Stainless steel.	903840
Multi-Parameter Portable Meters 3320		
pH/Cond 3320	Professional pH/conductivity meter with 2 inputs (DIN, 8 pin socket), backlit graphic display, for mobile application with data logger and USB interface. Single instrument in a case including short instruction manual, CD-ROM and batteries, cable.	2EA310
pH/Cond 3320 SET 2	Professional pH/conductivity meter with 2 inputs (DIN, 8 pin socket), backlit graphic display, for mobile application with data logger and USB interface. meter in carry case including SenTix® 41, TetraCon® 325, buffer solution STP 4 and STP 7, conductivity standard 0.01 mol/l KCl. Instruction manual, stand, beaker, CD-ROM, driver software for USB, batteries, cable.	2EA312
Multi 3320	Professional pH/dissolved oxygen/conductivity meter with 2 inputs (DIN, 8 pin socket), backlit graphic display, for mobile application with data logger and USB interface. Single instrument in a case including instruction manual, CD-ROM and batteries, cable	2FA310
Multi 3320 SET 1	Professional pH/dissolved oxygen/conductivity meter with 2 inputs (DIN, 8 pin socket), backlit graphic display, for mobile application with data logger and USB interface. Meter in field case with SenTix® 41, CellOx® 325, TetraCon® 325, sensor accessories, instruction manual. stand, beaker, CD-ROM, driver software for USB, batteries, cable.	2FA311
Multi 3320 SET 2	Professional pH/dissolved oxygen/conductivity meter with 2 inputs (DIN, 8 pin socket), backlit graphic display, for mobile application with data logger and USB interface. Meter in field case with SenTix® 41-3, CellOx® 325-3, TetraCon® 325-3, sensor accessories, instruction manual. stand, beaker, CD-ROM, driver software for USB, batteries, cable.	2FA312
ConOx and Accessories		
ZBK 325	Accessory case with spare parts and maintenance supplies for oxygen sensors CellOx® 325, TA 197 Oxi, ConOx and MPP 350 Ox module, Cleaning solution, abrasive foil, 3 exchange membrane heads and electrolyte.	202706
ConOx-1.5	Combined Oxygen-/Conductivity sensor with cable 4.9 ft (1.5 m). With 3 exchange membrane heads, cleaning solution, conductivity standard (1413 µS/cm), abrasive foil, OxiCal® CX calibration vessel, electrolyte.	401010
ConOx-3	Combined Oxygen-/Conductivity sensor with cable 9.8 ft (3 m) and instructions for use. With 3 exchange membrane heads, cleaning solution, conductivity standard (1413 µS/cm), abrasive foil, OxiCal® CX calibration vessel, electrolyte.	401020
Con-Modul-1.5	Conductivity module for ConOx with cable 4.9 ft (1.5 m).	401040
ConOx Ox-Modul	Oxygen sensor module for ConOx, with instruction manual. With 3 exchange membrane heads, cleaning solution, abrasive foil, electrolyte.	401070

Model	Description	Order No.
Multi-Parameter Portable Meters 340i/350i Accessories		
NT Multirange	Universal power supply 100 to 240 V, 50/60 Hz for inoLab®, 340i, 350i, 197i, 1970i.	902867
Multi-Parameter Probe MPP 350 (Accessories for old Product)		
SensoLyt® MPP-A	pH electrode, armored for installation in MPP 350, with polymer electrolyte and pinhole diaphragm.	401152
General Accessories for Multi-parameter Measurement		
NT USB Universal	New Universal USB power supply for ProfiLine 33x0 portable meters and WLM Charger.	902872
D 3Sen	New Flow-through vessel for up to three pH, ORP, D.O. or conductivity sensors (also IDS). With tube adapter for commercially available garden hoses inner diameter 19 mm (3/4"). Including clamp also for mast mounting.	903842

pH

Application Range pH Measurement									
● Recommended by WTW ○ Conditionally applicable - Not recommended									
Application range	inoLab®				Portable Meters				
	Multi IDS ^m Multi 9310 IDS/9620 IDS /9630 IDS	pH 7110	pH 7310	pH/ION 7320	MultiLine® IDS ^m Multi 3510 IDS	MultiLine® IDS ^m Multi 3620 IDS/3630 IDS	ProfiLine		
							pH 3110	pH 3310	pH/ION 3310
Routine measurement	○	●	○	○	○	○	●	○	○
Routine measurement with documentation	●	-	●	●	●	●	-	●	●
AQA with documentation	●	-	●	●	●	●	-	●	●
R&D high resolution and precision	●	-	●	●	●	●	-	●	●
Control measurements	●	-	●	●	●	●	-	●	●
LIMS connection	●	-	●	●	●	●	-	●	●
Quality assurance	●	-	●	●	●	●	-	●	●
Training	○	●	○	●	○	○	●	○	○
Service	-	-	-	-	●	●	●	●	●
Laboratory measurements	●	●	●	●	○	○	-	○	○
Field measurements	-	-	-	-	●	●	●	●	●
Depth measurements	-	-	-	-	●	●	-	-	-
PC connection	●	-	●	●	●	●	-	●	●
pH/ISE function	- , ● , ●	-	-	●	-	-	-	-	●
Ion-specific measurement programs	-	-	-	●	-	-	-	-	-

Application range electrodes	Conventional			Digital ^m		
	Gel electrode	Liquid electrolyte	Special electrode	Gel electrode	Liquid electrolyte	Special electrodes
Chemical solutions	○	●	●	○	●	●
Ultrapure water (Pharmacopeia)	-	○	●	-	○	●
Ground water	●	○	-	●	○	-
Surface water	●	○	-	●	○	-
Depth measurements (barrages)	-	-	●	-	-	●
Laboratory measurements	○	●	●	○	●	●
Food industry	○	●	●	○	●	●
Swimming pools	●	-	-	●	-	-
Cosmetics/detergents	-	●	●	-	●	●
Semi-conductor industry	-	○	●	-	○	●
Paint/varnish (water-soluble)	○	●	●	○	●	●
Electro plating	●	○	-	●	○	-
applicable instruments	all conventional instruments			pH 3310 IDS, all MultiLine® IDS and inoLab® Multi IDS		

Model	Description	Order No.
Laboratory pH Meters inoLab®		
inoLab® pH 7110	Easy-to-operate basic pH/mV benchtop meter with DIN socket for routine measurement. For AC and battery operation. Single meter with universal power supply, stand and operation manual.	1AA110
inoLab® pH 7110 SET 2	Easy-to-operate basic pH/mV benchtop meter with DIN socket for routine measurement. For AC and battery operation. Meter with universal power supply, stand and operation manual. Combined pH electrode SenTix® 41, buffer 4, 7 and 10.01, 3 mol/l KCl	1AA112
inoLab® pH 7110 SET 4	Easy-to-operate basic pH/mV benchtop meter with DIN socket for routine measurement. For AC and battery operation. Meter with universal power supply, stand and operation manual. Combined pH electrode SenTix® 81, buffer 4, 7 and 10.01, 3 mol/l KCl	1AA114
inoLab® pH 7110 BNC	Easy-to-operate basic pH/mV benchtop meter with BNC socket for routine measurement. For AC and battery operation. Single meter with universal power supply, stand and operation manual.	1AA120
inoLab® pH 7310	Convenient, menu controlled pH/mV meter for measurements/documentation according GLP/AQA. For AC and battery operation. Single meter with universal power supply, stand and operation manual. CD-ROM including software and USB cable.	1AA310
inoLab® pH 7310P	Convenient, menu controlled pH/mV meter for measurements/documentation according GLP/AQA, with integrated thermal printer. Single meter with universal power supply, stand and operation manual. CD-ROM including software and USB cable.	1AA310P
inoLab® pH 7310 SET 2	Convenient, menu controlled pH/mV meter for measurements/documentation according GLP/AQA. Set including combined pH electrode. Meter with universal power supply, stand and operation manual. Combined pH electrode SenTix® 41, buffer 4, 7 and 10.01, 3 mol/l KCl, software and USB cable.	1AA312
inoLab® pH 7310 SET 4	Convenient, menu controlled pH/mV meter for measurements/documentation according GLP/AQA. Set including combined pH electrode. Meter with universal power supply, stand and operation manual. Combined pH electrode SenTix® 81, buffer 4, 7 and 10.01, 3 mol/l KCl, software and USB cable.	1AA314
inoLab® pH 7310 BNC	Convenient, menu controlled pH/mV meter, BNC socket, for measurements/documentation according GLP/AQA. For AC and battery operation. Meter with universal power supply, stand and operation manual, software and USB cable.	1AA320
inoLab® pH 7310P BNC	Convenient, menu controlled pH/mV meter, BNC socket, for measurements/documentation according GLP/AQA, with integrated thermal printer. Meter with universal power supply, stand and operation manual, software and USB cable.	1AA320P
Portable pH Meters ProfiLine		
pH 3110	Easy-to-operate, robust pH/mV-meter with large LCD-Display, for portable routine measurement. Single instrument in a case including short instruction manual, CD-ROM and batteries.	2AA110
pH 3110 SET 2	Easy-to-operate, robust pH/mV-meter with large LCD-display, for portable routine measurement, set with SenTix® 41. Meter in carry case with pH electrode SenTix® 41, buffer solution STP 4 and STP 7, stand, beaker, short instruction manual, CD-ROM and batteries.	2AA112
pH 3310	Professional, field proven pH/mV-meter with backlit graphic display, for portable application with data logger and USB interface. Single instrument in a case including short instruction manual, CD-ROM and batteries, cable.	2AA310
pH 3310 SET 2	Professional, field proven pH/mV-meter with backlit graphic display, for portable application with data logger and USB interface, set including SenTix® 41. Meter in carry case with pH electrode SenTix® 41, buffer solution STP 4 and STP 7, stand, beaker, CD-ROM, driver software for USB, batteries, cable.	2AA312
Protective Armoring Handheld pH Meter		
SM Pro	Shock absorbing rubber elastic protective armoring for ProfiLine and MultiLine® portable meters.	902780
SM 325	Shock absorbing elastic armoring for 3xx and 3xxi portable meters with folding support and electrode cable clamping device.	902818
pH Electrodes and Accessories		
SenTix® 20	Epoxy pH combination electrode with gel electrolyte, S7 plug head, without cable.	103630
SenTix® 21	Epoxy pH combination electrode with gel electrolyte and waterproof DIN plug, 3.3 ft (1 m) cable.	103631
SenTix® 21-3	Epoxy pH combination electrode with gel electrolyte and waterproof DIN plug, 9.9 ft (3 m) cable.	103632
SenTix® 22	Epoxy pH combination electrode with gel electrolyte and BNC plug, 3.3 ft (1 m) cable.	103633
SenTix® 41	Epoxy pH combination electrode with gel electrolyte, integrated temperature sensor, waterproof DIN plug and banana plug, 3.3 ft (1 m) cable.	103635
SenTix® 41-3	Epoxy pH combination electrode with gel electrolyte, integrated temperature sensor, waterproof DIN plug and banana plug, 9.9 ft (3 m) cable.	103636
SenTix® 42	Epoxy pH combination electrode with gel electrolyte, integrated temperature sensor BNC plug and banana plug, 3.3 ft (1 m) cable.	103637
SenTix® 60	Glass pH combination electrode with liquid electrolyte, S7 plug head. Length 120 mm, without cable.	103639

Model	Description	Order No.
SenTix® 61	Glass pH combination electrode with liquid electrolyte, waterproof DIN plug. Length 120 mm, 3.3 ft (1 m) cable.	103640
SenTix® 62	Glass pH combination electrode with liquid electrolyte, BNC plug. Length 120 mm, 3.3 ft (1 m) cable.	103641
SenTix® 81	Glass pH combination electrode with built-in temperature sensor, waterproof DIN plug and banana plug, length 120 mm, 3.3 ft (1 m) cable.	103642
SenTix® 82	Glass pH combination electrode with liquid electrolyte, built-in temperature sensor, BNC plug and banana plug, length 120 mm, 3.3 ft (1 m) cable.	103643
SenTix® H	Precision pH combination electrode with ground diaphragm for high alkali ranges, high salt concentrations, length 165 mm, with S7 plug head, without connection cable.	103644
SenTix® Sp	Spear-type pH combination electrode for penetration measurements in meat, fruit and cheese, S7 plug head, without cable.	103645
SenTix® Sur	Surface pH combination electrode for measurements on smooth surfaces (e.g. paper, film material, etc.), S7 plug head, without cable.	103646
SenTix® Mic	Micro pH combination electrode for measurements in small volumes or in small vessels, S7 plug head, shaft diameter 5 mm, without cable.	103647
SenTix® HW	Precision pH combination electrode with ground diaphragm for low-ionic media and S7 plug head, length 165 mm, without cable.	103650
SenTix® 51	Epoxy pH combination electrode with liquid electrolyte, waterproof DIN plug and banana plug, 3.3 ft (1 m) cable.	103651
SenTix® 52	Epoxy pH combination electrode with liquid electrolyte, BNC plug and banana plug, 3.3 ft (1 m) cable.	103652
SenTix® Mic-D	Combination pH-micro electrode, diameter 3 mm, liquid electrolyte (3 mol/l KCl), platinum wire junction, 1 m cable with DIN plug.	103660
SenTix® Mic-B	Combination pH micro electrode, diameter 3 mm, liquid electrolyte (3 mol/l KCl), platinum wire junction, 1 m cable with BNC plug.	103661
SenTix® 91	Precision pH combination electrode, liquid electrolyte, built-in temperature sensor, DIN plug and banana plug.	103695
SenTix® Sp-DIN	Spear-type pH combination electrode for penetration measurements in meat, fruit and cheese, with fixed cable and waterproofed DIN plug.	103730
SenTix® HWD	pH-electrode, NTC 30 kOhm, split ring junction, liquid electrolyte (3 mol/l KCl), 1 m fixed cable with DIN plug and 4 mm banana plug.	103731
SenTix® RJD	pH electrode, NTC 30 kOhm, polymer electrolyte, split ring junction, glass shaft, 1 m fixed cable with DIN plug and 4 mm banana plug.	103732
AS/DIN	Connection cable with DIN plug for pH/ORP electrodes with plug head, 3.3 ft (1 m) cable.	108110
AS/DIN - 3	Connection cable with DIN plug for pH/ORP electrodes with plug head, 9.9 ft (3 m) cable.	108112
AS/BNC	Connection cable with BNC plug for pH/ORP electrodes with plug head, 3.3 ft (1 m) cable.	108114
IDS pH Electrodes		
SenTix® HW-T 900	IDS precision pH combination electrode with split ring junction for low-ionic media, length 165 mm with integrated temperature sensor, QSC function, memory for 10 calibrations, serial number, 1.5 m cable with waterproof digital connector for MultiLine®, MonoLine or inoLab® IDS.	103753
SenTix® 940	IDS pH combination electrode with gel electrolyte, plastic shaft and integrated temperature sensor. QSC function. Electrode incl. 1.5 m fixed cable with waterproof digital connector. For MultiLine®, MonoLine, inoLab® IDS.	103740
SenTix® 940-3	IDS pH combination electrode with gel electrolyte, plastic shaft and integrated temperature sensor. QSC function. Electrode incl. 3 m fixed cable with waterproof digital connector. For MultiLine® MonoLine, and inoLab® IDS.	103741
SenTix® 945	Low maintenance IDS pH electrode with gel electrolyte, glass shaft, three ceramic junctions, and integrated temperature sensor, 3 junctions. QSC function, memory for 10 calibrations. Electrode incl. 1.5 m fixed cable with waterproof digital connector for MultiLine, MonoLine und inoLab® IDS.	103743
SensoLyt® 900-P	Combined IDS pH electrode with polymer electrolyte and glass shaft, built-in temperature sensor, pressure resistant up to 10 bars. Electrode with waterproof plug head for connection to a MPP IDS or AS/IDS-x	103748
SenTix® 950	IDS pH combination electrode with liquid electrolyte, plastic shaft and integrated temperature sensor. QSC function. Electrode including 1.5 m fixed cable with waterproof digital connector, dropper vial with 3 mol/l KCl.	103750
SenTix® Micro 900	IDS pH micro electrode, for measurement of small volumes and in small vessels, diameter 5 mm, with integrated temperature sensor, QSC function, memory for 10 calibrations, 1,5 m cable with digital connector for MultiLine®, MonoLine or inoLab® IDS.	103751
SenTix® Sp-T 900	IDS pH electrode for penetration measurement for measurement of meat, fruit or cheese with integrated temperature sensor, QSC function, memory for 10 calibrations, serial number, 1.5 m cable with waterproof digital connector for MultiLine®, MonoLine or inoLab® IDS.	103752
SenTix® 940-P	IDS pH combination electrode with gel electrolyte, plastic shaft and integrated temperature sensor. QSC function. Electrode with plug head for AS IDS/1.5 cable or wireless module.	103760

Applications for SenTix® Electrodes													
	● Recommended by WTW			○ Conditionally applicable				* Only recommended for specified model					
	SenTix® V	SenTix® 20 21-..., 22	SenTix® 41, 41-3, 42, RJD, 940, 940-P	SenTix® 51, 52 950, 950-P	SenTix® 60, 61 62	SenTix® 81, 82 980, 980-P, 945, 945-P	SenTix® 91	SenTix® H	SenTix® HW, HWD, HW-T 900, HW-T 900-P	SenTix® Sp, Sp-DIN, Sp-T 900, Sp-T 900-P	SenTix® Sur	SenTix® Mic, MIC-D, MIC-B, Micro 900, Micro 900-P	SenTix® ORP**, ORPT 900**, ORPT 900-P**, PtR, Ag, Au Au, ORP...*
Acids					●	●	●		○				
Ammonia					○	○	○	●					
Aquarium water	●	●	●	●	○	○	○						ORP...*, PtR*
Beer				●	●	●	●		●				ORP...*
Beverages				●	●	●	●	○	○				
Bleach solution					○	○	○	●	○				
Boiler feedwater					○	○	○		●				
Bread										●			
Cheese										●			
Coffee extract				○	●	●	●		●				
Condensate									●				
Cosmetics	○								●				
Deminerlized water									●				
Developer			RJD*		○	○	○	●	○				
Dispersion colors	○		RJD*						●				
Distilled water									●				
Drinking water	○	○	○	●	●	●	●		○				
Electroplating baths	○		RJD*	●	●	●	●		○				
Electroplating wastewater	●	●	●	○	○	○	○		○				○
Extracts					○	○	○		●				
Fixing baths			RJD*	○	○	○	○	●	●				ORP...*, PtR*
Fruit										●			
Fruit juice	○			●	●	●	●		○				
Ground water		●	●	○	○	○	○		○				PtR*
Household cleaners	○	○	○	○	●	●	●	●	○				
Juice	○			●	●	●	●		○				
Leather	○										●		ORP...*
Lemonade				●	●	●	●		○				
Lyes								●					
Margarine										●			
Meat										●			
Milk									●				
Mineral water				○	●	●	●		○				
Non-aqueous liquids				○	○	○	○		○				ORP...*
Oil/water emulsions			RJD*						●				
Paint, water-soluble	○		RJD*						●				
Paper	○										●		
Paper extract					●	●	●						
Protein-containing liquids					●	●	●		●			MIC-D/-B*	
Rainwater					○	○	○		●				
Saliva	●										●	○	
Salt solutions	○	○	○	○	●	●	●	○	●				ORP...*
Saltwater				○	○	○	○	○	●				
Sausage										●			
Shampoo	○								●				
Skin	○										●		
Soil extract					●	●	●		●				
Solids (penetration)										●			
Solids (surface)	○										●		
Sulfide-containing liquids			RJD*						●				PtR*
Surface water	○	●	●	●	●	●	●		○				
Suspensions			RJD*						●				ORP...*
Swimming pool water	●	●	●	●	○	○	○						
Tap water	○	○	○	●	●	●	●		○				
Tris buffer solutions					●	●	●		●				
Vegetable juice					●	●	●		○				
Vegetables										●			
Wastewater	○	●	●	○	○	○	○						PtR*
Wine				●	○	●	●						
Yogurt					●	●	●		●	●			

1 year guaranty for defects of quality for all pH electrodes

** for ORP Measurement

Model	Description	Order No.
SenTix® 950-P	IDS pH combination electrode with liquid (3 mol/l KCl) electrolyte, plastic shaft and integrated temperature sensor. QSC function. Electrode with plug head for AS IDS/1.5 cable or wireless module.	103761
SenTix® 980-P	IDS pH combination electrode with liquid electrolyte (3 mol/l KCl), glass shaft and integrated temperature sensor. QSC function. Electrode with plug head for AS IDS/1.5 cable or wireless module.	103762
SenTix® 945-P	Low maintenance IDS pH electrode with gel electrolyte, glass shaft, three ceramic junctions, and integrated temperature sensor, 3 junctions. QSC function, memory for 10 calibrations. Electrode with plug head for AS IDS/1.5 cable or wireless module.	103764
SenTix® Micro 900-P	IDS pH micro electrode, for measurement of small volumina and in small vessels, diameter 5 mm, with integrated temperature sensor, QSC function, memory for 10 calibrations, Electrode with plug head for AS IDS/1.5 cable or wireless module.	103765
SenTix® SP-T 900-P	IDS pH electrode for penetration measurement for measurement of meat, fruit or cheese with integrated temperature sensor, QSC function, memory for 10 calibrations serial number. Electrode with plug head for AS IDS/1.5 cable or wireless module.	103766
SenTix® HW-T 900-P	Precision pH combination electrode with split ring junction for low-ionic media, length 165 mm with integrated temperature sensor, QSC function, memory for 10 calibrations, serial number. Electrode with plug head for AS IDS/1.5 cable or wireless module.	103767
SenTix® 980	IDS pH combination electrode with liquid electrolyte, glass shaft and integrated temperature sensor. QSC function. Electrode incl. 1.5 m fixed cable with waterproof digital connector, dropper vial with 3 mol/l KCl.	103780
ADA S7/IDS	Adapter cable 1.5 m with digital connector, for connecting a SenTix® combination electrode with S7 plug head to a MultiLine® or inoLab® IDS.	108130
A 925-P	Armor for IDS field sensors without guard designed for TetraCon® 925-P, SensoLyt® 900-P, SensoLyt® ORP 900-P, FDO® 925-P. material: POM	903838
A 925-P/K	Armor for IDS field sensors including guard designed for TetraCon® 925-P, SensoLyt® 900-P, SensoLyt® ORP 900-P, FDO® 925-P, VisoTurb® 900-P, material: POM.	903839
A 925-P/S	Armor for IDS field sensors including guard designed for TetraCon® 925-P, SensoLyt® 900-P, SensoLyt® ORP 900-P, FDO® 925-P. Guard: Stainless steel.	903840
IDS Wireless Modules for IDS pH Electrodes with Plug Head		
IDS WLM-S	<i>New</i> Wireless module for IDS plug head sensors for radio transmission of measurement values. Includes rechargeable LiPo-battery. Splash water protected according IP 43.	108141
IDS WLM-M	<i>New</i> Wireless module for connecting to MultiLine® 3310/3510/36x0 IDS, inoLab® Multi IDS and MonoLine. Connects up to three sensors at the same time (depends on meter capabilities).	108142
WLM Charger	<i>New</i> Charger without external power supply for charging IDS WLM-S modules, with USB plug, cascable, with USB cable. For charging via PC or external USB power supply.	108143
IDS WLM Kit	<i>New</i> Kit consisting of one of each IDS WLM-S, IDS WLM-M and WLM Charger including USB power supply for wireless operation of IDS plug head sensors.	108144
Cables for IDS pH Electrodes with Plug Head		
AS/IDS-1.5	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 1.5 m.	903850
AS/IDS-3	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 3 m.	903851
AS/IDS-6	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 6 m.	903852
AS/IDS-10	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 10 m.	903853
AS/IDS-15	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 15 m.	903854
AS/IDS-20	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 20 m.	903855
AS/IDS-25	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 25 m. Stored on reel (included)	903856
AS/IDS-40	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 40 m. Stored on reel (included)	903857
AS/IDS-60	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 60 m. Stored on reel (included)	903858
AS/IDS-100	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 100 m. Stored on reel (included)	903859
pH Buffer Solutions		
SORT/TPL	Calibration and maintenance set with technical buffer solutions. 3 bottles with 250 ml each: pH 4.01/ 7.00/ 10.00, 1 bottle with 250 ml pepsin cleaning solution, 1 bottle with 250 ml KCl solution 3 mol/l.	108820
SORT/TEP/G	Calibration and maintenance set with technical buffer solution for gel electrodes. 3 bottles with 1 l each: pH 4.01/ 7.00/ 10.00, 2 bottles with 250 ml KCl solution, 3 mol/l each.	108822
SORT/TPL/G	Calibration and maintenance set with technical buffer solutions for gel electrodes. 3 bottles with 250 ml each: pH 4.01/ 7.00/ 10.00, 2 bottles with 250 ml KCl solution, 3 mol/l each.	108823

Model	Description	Order No.
SORT/TPL/TRACE	Calibration and maintenance set with technical buffer solution, 3 bottles with 250 ml each: pH 4.01/ 7.00/ 10.01 Trace, 1 bottle with 250 ml pepsin cleaning solution, 1 bottle with 250 ml 3 mol/l KCl solution.	108824
SORT/TPL/G/TRACE	Calibration and maintenance set with technical buffer solution for gel electrodes, 3 bottles with 250 ml each: pH 4.01/ 7.00/ 10.01 Trace, 2 bottles with 250 ml 3 mol/l KCl solution.	108825
SORT/TEP/TRACE	Calibration and maintenance set with technical buffer solution 3 bottles with 1 l each: pH 4.01/ 7.00/ 10.01, 1 bottle with 250 ml pepsin cleaning solution, 1 bottle with 250 ml KCl solution 3 mol/l.	108826
SORT/TEP/G/TRACE	Calibration and maintenance set with technical buffer solution for gel electrodes, 3 bottles with 1 l each: pH 4.01/ 7.00/ 10.01 Trace, 2 bottles with 250 ml 3 mol/l KCl solution.	108827
SORT/K	Calibration and maintenance set with standard (DIN/NIST) buffer solution, 3 bottles, 250 ml each: pH 4.006 - 6.865 - 9.180, 1 bottle with 250 ml pepsin cleaning solution, 1 bottle with 250 ml KCl solution 3 mol/l.	109415
TEP 2	Technical buffer solution, 1 bottle with 1 l: pH 2.00	108698
TEP 4	Technical buffer solution, 1 bottle with 1 l: pH 4.01	108700
TEP 4/10	Technical buffer solution pH = 4.01; Box with 10 bottles with 1 liter each.	108701
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
TEP 10	Technical buffer solution, 1 bottle with 1 l: pH 10.00	108704
STP 4	Technical buffer solution, 1 bottle with 50 ml: pH 4.01	108706
STP 7	Technical buffer solution, 1 bottle with 50 ml: pH 7.00	108708
STP 10	Technical buffer solution, 1 bottle with 50 ml: pH 10.00	108710
STP 10 TRACE	Technical buffer solution, 1 bottle with 50 ml: pH 10.01	108722
TEP 7/10	Technical buffer solution pH = 7.00; Box with 10 bottles with 1 liter each.	108725
TEP 10/10	Technical buffer solution pH = 10.00; Box with 10 bottles with 1 liter each.	108726
TEP 10 TRACE/10	Technical buffer solution pH = 10.01; Box with 10 bottles with 1 liter each.	108727
TEP 4/25	Technical buffer solution pH = 4.01; Box with 25 bottles with 1 liter each.	108728
TEP 7/25	Technical buffer solution pH = 7.00; Box with 25 bottles with 1 liter each.	108729
TEP 10/25	Technical buffer solution pH = 10.00; Box with 25 bottles with 1 liter each.	108730
TEP 10 TRACE/25	Technical buffer solution pH = 10.01; Box with 25 bottles with 1 liter each.	108731
TPL 4	Technical buffer solution pH = 4.01, 1 bottle with 250 ml: pH 4.01	108800
TPL 4/10	Technical buffer solution pH = 4.01; Box with 10 bottles with 250 ml each.	108801
TPL 7	Technical buffer solution pH = 7.00, 1 bottle with 250 ml: pH 7.00	108802
TPL 7/10	Technical buffer solution pH = 7.00; Box with 10 bottles with 250 ml each.	108803
TPL 10	Technical buffer solution pH = 10.0, 1 bottle with 250 ml: pH 10.00	108804
TPL 10 Trace	Technical buffer solution pH = 10.01, 1 bottle with 250 ml: pH 10.01	108805
TPL 10/10	Technical buffer solution pH = 10.00; Box with 10 bottles with 250 ml each.	108807
TPL 10 TRACE/10	Technical buffer solution pH = 10.01; Box with 10 bottles with 250 ml each.	108809
TPL 4/25	Technical buffer solution pH = 4.01; Box with 25 bottles with 250 ml each.	108811
TPL 7/25	Technical buffer solution pH = 7.00; Box with 25 bottles with 250 ml each.	108812
TPL 10/25	Technical buffer solution pH = 10.00; Box with 25 bottles with 250 ml each.	108813
TPL 10 TRACE/25	Technical buffer solution pH = 10.01; Box with 25 bottles with 250 ml each.	108814

pH

Applicable buffers	PL 4/7/9 DIN/NIST	STAPL 4/7/9 DIN/NIST	TEP 4/7 Trace	TEP 10 Trace	TEP 10	TPL 4/7 Trace	TPL 10 Trace	TPL 10
inoLab® ***	●	●	●	●	-	●	●	-
inoLab® Level 1, 2, 3/pH 197	●	●	●	-	●	●	-	●
VARIO® pH	●	●	●	●	-	●	●	-
pH 3110, pH 3210, pH 3310, pH 315i/3150i*, 330i/3300i*, 340i/3400i*, pH/ION 340i/3400i*, pH 197i/1970i, pH 3310 IDS	●	●	●	●	-	●	●	-
pH/Cond 340i/3400i*, pH/Oxi 340i/3400i*, Multi 340i/3400i*, Multi 350i/3500i*, MultiLine® Multi 34x0, 3510 IDS, 36x0 IDS, Multi 197i/1970i, pH/Cond 3320, Multi 3320, pH/ION 3310	● **	● **	●	●	-	●	●	-

* North American version
** not for Multi 340i/3400i*, Multi 197i/1970i
*** not for inoLab® Level 1, 2, 3; pH 197

Model	Description	Order No.
SORT/TEP	Calibration and maintenance set with technical buffer solution 3 bottles with 1 l each: pH 4.01/ 7.00/ 10.00, 1 bottle with 250 ml pepsin cleaning solution, 1 bottle with 250 ml KCl solution 3 mol/l.	108980
PL 2	Standard (DIN/NIST) buffer solution for special applications, 1 bottle with 250 ml: pH 1.679/1.68.	109000
STAPL-4/7/9	Working reference buffer solution pH 4.01, pH 6.87 pH 9.18. Traceable to NIST/PTB. Steam-sterilized package. Package with 10 x 6 glass ampoules, 20 ml each.	109020
PL 4	Standard (DIN/NBS) buffer solution, 1 bottle with 250 ml: pH 4.006/4.01	109110
PL 7	Standard (DIN/NBS) buffer solution, 1 bottle with 250 ml: pH 6.865 /6.87	109120
PL 9	Standard (DIN/NBS) buffer solution, 1 bottle with 250 ml: pH 9.180 /9.18	109130
PL 12	Standard (DIN/NIST) buffer solution for special applications, 1 bottle with 250 ml: pH 12,47	109400
SORT/STP/G	Calibration and maintenance set with technical buffer solutions for gel electrodes. 3 bottles, 50 ml each: pH 4.01/ 7.00/ 10.00, 2 bottles with 250 ml KCl solution, 3 mol/l each.	109721
QSC KIT	Initial calibration kit for IDS pH electrodes. Box with 3 ampoules, pH 4.01, pH 6.86, pH 9.18.	109830
pH: Electrolytes and Cleaning Solution		
KCI-50	KCl solution, 3 mol/l, small bottle with 50 ml.	109706
PEP/pH	Pepsin cleaning solution only for electrodes with liquid electrolytes, 3 bottles, 250 ml each.	109648
KCI-250	Reference electrolyte, 1 bottle with 250 ml KCl solution 3 mol/l.	109705
Temperature Sensors		
TFK 150/E	Spear-type temperature sensor for temperature measurement and automatic temperature compensation with 3.3 ft (1 m) cable and waterproof plug.	102269
TFK 150-1,5	Temperature sensor for automatic temperature compensation with 4.9 ft (1,5 m) cable and waterproof plug.	102270
TFK 150	Temperature sensor for automatic temperature compensation with 3.3 ft (1 m) cable and waterproof plug	102274
TFK 325	Temperature sensor for automatic temperature compensation in aqueous solutions with 3.3 ft (1 m) cable and waterproof plug	102280
TFK 325/HC	Temperature sensor for automatic temperature compensation in aqueous solutions, with 3.3 ft (1 m) cable and waterproof plug, built-in holding clip for pH electrodes.	109818
HC 325	Holding clip for SenTix® pH electrodes for temperature sensor TFK 325	109821
TFK 325/HC-3	Temperature sensor for automatic temperature compensation with 9.8 ft (3 m) cable and waterproof plug, built-in holding clip for pH electrodes.	109823
Additional Accessories für pH Measurement		
STH 320	Stand for case	902803
NT USB Universal	<i>New</i> Universal USB power supply for ProfiLine 33x0 portable meters and WLM Charger.	902872
pH-Cap	Replacement moisturizing cap for SenTix® pH sensors (12 mm shaft diameter).	108065
ADA-DIN-BNC	Adapter for connecting pH electrodes with BNC plug to a meter with DIN socket.	108509
KS ProfiLine pH	Kit without electrode or meter. Accessories for pH ProfiLine portable meters including case, stand, technical buffer 4 and 7, 3 mol/l KCl.	2A0001
A pHLab/K	<i>New</i> Plastic armoring for protecting pH and ORP electrodes with glass shaft and length 120 mm in the field and in a plant.	903841
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
MG/pH	Measuring vessel for determining the pH of drinking water, suitable for pH combination electrodes SenTix® 81, also for use as storage vessel for electrodes.	108062
MB 50	Beaker, 50 ml	108064
STH 650	Benchtop stand for pH electrodes, ion-sensitive electrodes, reference electrodes, temp sensors, oxygen sensors and TetraCon® 325 cond cells.	109809
NT Multirange	Universal power supply 100 to 240 V, 50/60 Hz for inoLab®, 340i, 350i, 197i, 1970i.	902867
pH Depth Measurement (Accessories for old Products)		
TA-SensoLyt® PtA	ORP combination electrode (platinum) for installation in depth armature series TA 197-pH, polymer electrolyte, pin hole junction.	103711
TA-SensoLyt® SEA	Combination pH electrode for installation in depth armature series TA 197-pH, polymer electrolyte, pin hole junction.	103710
SensoLyt® MPP-A	pH electrode, armored for installation in MPP 350, with polymer electrolyte and pinhole diaphragm.	401152



a xylem brand

THE WORLDWIDE NO. 1 FOR ELECTROCHEMISTRY METERS

Founded in 1945, the brand WTW stands for outstanding leadership in the design and production of superior quality water testing instrumentation world-wide for more than 70 years.

Today WTW is offering the world's most complete line of pH/ORP, D.O./BOD/Respirometry and Conductivity Instruments, Turbidity Meters, Photometers with reagents.



INTELLIGENT **I**
DIGITAL **D**
SENSORS **S**



wtw.com

xylem
Let's Solve Water

ORP

Model	Description	Order No.
ORP Electrodes		
AS/DIN	Connection cable with DIN plug for pH/ORP electrodes with plug head, 3.3 ft (1 m) cable.	108110
AS/DIN - 3	Connection cable with DIN plug for pH/ORP electrodes with plug head, 9.9 ft (3 m) cable.	108112
AS/BNC	Connection cable with BNC plug for pH/ORP electrodes with plug head, 3.3 ft (1 m) cable.	108114
SenTix® ORP	ORP combination electrode (platinum - silver/silver chloride), plug head, length 120 mm.	103648
SenTix® Ag	Combination Ag electrode with liquid electrolyte (2 mol/l KNO ₃ + 0,001 mol/l KCl), S7-plug head, for argentometry.	103664
SenTix® Au	Combination Au-ORP electrode with liquid electrolyte (3 mol/l KCl), S7-plug head.	103665
SenTix® PTR	Combination Pt-ORP electrode with polymer electrolyte, S7-plug head.	103666
IDS ORP Electrodes		
SensoLyt® 900 ORP-P	Combined IDS ORP electrode with polymer electrolyte and glass shaft, built-in temperature sensor, pressure resistant up to 10 bars. Electrode with waterproof plug head for connection to a MPP IDS or AS/IDS-x	103749
SenTix® ORP-T 900-P	Platinum IDS ORP electrode with liquid electrolyte (3 mol/l KCl) and glass shaft, temperature sensor. Electrode with plug head for AS IDS/1.5 cable or wireless module.	103763
SenTix® ORP-T 900	Platinum IDS ORP electrode with liquid electrolyte and glass shaft, temperature sensor. Electrode incl. 1.5 m fixed cable with waterproof digital connector, for MultiLine®, MonoLine and inoLab® IDS, dropper vial with 3 mol/l KCl.	103791
A 925-P	Armor for IDS field sensors without guard designed for TetraCon® 925-P, SensoLyt® 900-P, SensoLyt® ORP 900-P, FDO® 925-P. material: POM	903838
A 925-P/K	Armor for IDS field sensors including guard designed for TetraCon® 925-P, SensoLyt® 900-P, SensoLyt® ORP 900-P, FDO® 925-P, VisoTurb® 900-P, material: POM.	903839
A 925-P/S	Armor for IDS field sensors including guard designed for TetraCon® 925-P, SensoLyt® 900-P, SensoLyt® ORP 900-P, FDO® 925-P. Guard: Stainless steel.	903840
Maintenance Supplies ORP		
ELY/ORP/Ag	Electrolyte (2 mol/l KNO ₃ + 0.001 mol/l KCl) for combined ORP electrode with Ag electrode.	109735
RH 28	ORP buffer solution pH 7, UH = 427 mV (CH), 1 bottle with 250 ml.	109740
IDS Wireless Modules for IDS ORP Electrodes with Plug Head		
IDS WLM-S	<i>New</i> Wireless module for IDS plug head sensors for radio transmission of measurement values. Includes rechargeable LiPo-battery. Splash water protected according IP 43.	108141
IDS WLM-M	<i>New</i> Wireless module for connecting to MultiLine® 3310/3510/36x0 IDS, inoLab® Multi IDS and MonoLine. Connects up to three sensors at the same time (depends on meter capabilities).	108142
WLM Charger	<i>New</i> Charger without external power supply for charging IDS WLM-S modules, with USB plug, cascadable, with USB cable. For charging via PC or external USB power supply.	108143
IDS WLM Kit	<i>New</i> Kit consisting of one of each IDS WLM-S, IDS WLM-M and WLM Charger including USB power supply for wireless operation of IDS plug head sensors.	108144
Cables for IDS ORP Electrodes with Plug Head		
AS/IDS-1.5	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 1.5 m.	903850
AS/IDS-3	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 3 m.	903851
AS/IDS-6	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 6 m.	903852
AS/IDS-10	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 10 m.	903853
AS/IDS-15	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 15 m.	903854
AS/IDS-20	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 20 m.	903855
AS/IDS-25	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 25 m. Stored on reel (included)	903856
AS/IDS-40	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 40 m. Stored on reel (included)	903857
AS/IDS-60	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 60 m. Stored on reel (included)	903858
AS/IDS-100	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 100 m. Stored on reel (included)	903859

ISE

Application Range Ion-Selective Measurements		
● recommended by WTW ○ suitable		
Application Range	inoLab®	Handheld Meters
	pH/ION 7320, Multi 9620 IDS/9630 IDS	pH/ION 3310, pH/Cond 3320, Multi 3320
Occasional, simple ISE measurement	○	●
Routine and standard measurement	●	○
Advanced methods and procedures	●	-

Half Cells Series 500									
Electrode type	Mem-brane ^②	Determinable ions	Half cell, reference electrode necessary:		Measuring range	Bridge electrolyte	Ionic strength adjustment solution	Standard solution (conc. 10 g/l)	pH range
Ammonia (NH ₄ ⁺)		Ammonia	NH 500/2	-	0.02...900 mg/l 10 ⁻⁶ ...5 x 10 ⁻² mol/l	-	MZ/NH ₃ /CN	ES/NH ₄	4-12
Bromide (Br ⁻)	S	Bromide	Br 500	R 503 D (4 mm banana plug)	0.4...79000 mg/l 5 x 10 ⁻⁶ ...1 mol/l	ELY/BR/503	ISA/FK	ES/Br	1-12
Calcium (Ca ²⁺)	L	Calcium, Magnesium ^③	Ca 500 ^④		0.02...40000 mg/l 5 x 10 ⁻⁷ ...1 mol/l	ELY/BR/503	ISA/Ca	ES/Ca	2.5-11
Chloride (Cl ⁻)	S	Chloride	Cl 500		2...35000 mg/l 5 x 10 ⁻⁵ ...1 mol/l	ELY/BR/503	ISA/FK	ES/Cl	2-12
Cyanide (CN ⁻) ^⑤	S	Cyanide	CN 500		0.2...260 mg/l 8 x 10 ⁻⁶ ...10 ⁻² mol/l	ELY/BR/503	MZ/NH ₃ /CN	-	0-14
Fluoride (F ⁻)	S	Fluoride, Aluminum Phosphate ^⑤ , Lithium ^⑤	F 500		0.02...sat. mg/l 10 ⁻⁶ ...sat. mol/l	ELY/BR/503	TISAB	ES/F	5-7
Potassium (K ⁺) ^⑤	L	Potassium	K 500 ^④		0.04...39000 mg/l 10 ⁻⁶ ...1 mol/l	ELY/BR/503/K	ISA/K	ES/K	2-12
Copper (Cu ²⁺)	S	Copper, Nickel ^⑤	Cu 500		0.0006...6400 mg/l 10 ⁻⁸ ...10 ⁻¹ mol/l	ELY/BR/503	ISA/FK	ES/Cu	2-6
Sodium (Na ⁺) ^⑤	G	Sodium	DX 223 NA		0.05...23000 mg/l 2 x 10 ⁻⁶ ...1 mol/l	-	ISA/Na	ES/Na	>10
Nitrate (NO ₃ ⁻) ^⑤	L	Nitrate	NO 500 ^④		0.4...62000 mg/l 7 x 10 ⁻⁶ ...1 mol/l	ELY/BR/503/N	TISAB/NO ₃	ES/NO ₃	2.5-11
Silver (Ag ⁺) ^⑤	S	Silver	Ag/S 500		0.01...108000 mg/l 10 ⁻⁷ ...1 mol/l	ELY/BR/503	ISA/FK	-	2-12
Sulfide (S ²⁻) ^⑤	S	Sulfide	Ag/S 500		0.003...32000 mg/l 10 ⁻⁷ ...1 mol/l	ELY/BR/503	④	-	2-12

① Exchange measuring head
② S = solid state electrode, L = matrix electrode, G = glass electrode
③ Titration
④ Use according to operating instructions
⑤ Formulations for additionally required solutions are given in the application steps and operating instructions

1 year guaranty for defects of quality on all ISE sensors

ORP | ISE

Combined ISE Electrodes Series 800								
Electrode type	Mem-brane ^②	Determinable ions	built-in refer-ence elec-trode	Measuring range	Bridge electrolyte	Ionic strength adjustement solution	Standard solution (conc. 10 g/l)	pH range
Bromide (Br ⁻)	S	Bromide	Br 800	0.4...79000 mg/l 5 x 10 ⁻⁶ ...1 mol/l	ELY/BR/503	ISA/FK	ES/Br	1-12
Calcium (Ca ²⁺)	L	Calcium, Magnesium ^③	Ca 800 ^④	0.02...40000 mg/l 5 x 10 ⁻⁷ ...1 mol/l	ELY/BR/503	ISA/Ca	ES/Ca	2.5-11
Chloride (Cl ⁻)	S	Chloride	Cl 800	2...35000 mg/l 5 x 10 ⁻⁵ ...1 mol/l	ELY/BR/503	ISA/FK	ES/Cl	2-12
Cyanide (CN ⁻) ^⑤	S	Cyanide	CN 800	0.2...260 mg/l 8 x 10 ⁻⁶ ...10 ⁻² mol/l	ELY/BR/503	MZ/NH ₃ /CN	–	0-14
Fluoride (F ⁻)	S	Fluoride, Aluminum Phosphate ^⑥ , Lithium ^⑥	F 800	0.02...sat. mg/l 10 ⁻⁶ ...sat. mol/l	ELY/BR/503	TISAB	ES/F	5-7
Potassium (K ⁺) ^⑤	L	Potassium	K 800 ^④	0.04...39000 mg/l 10 ⁻⁶ ...1 mol/l	ELY/BR/503/K	ISA/K	ES/K	2-12
Copper (Cu ²⁺)	S	Copper, Nickel ^⑥	Cu 800	0.0006...6400 mg/l 10 ⁻⁸ ...10 ⁻¹ mol/l	ELY/BR/503	ISA/FK	ES/Cu	2-6
Nitrate (NO ₃ ⁻) ^⑤	L	Nitrate	NO 800 ^④	0.4...62000 mg/l 7 x 10 ⁻⁶ ...1 mol/l	ELY/BR/503/N	TISAB/NO ₃	ES/NO ₃	2.5-11
Silver (Ag ⁺) ^⑤	S	Silver	Ag/S 800	0.01...108000 mg/l 10 ⁻⁷ ...1 mol/l	ELY/BR/503	ISA/FK	–	2-12
Sulfide (S ²⁻) ^⑤	S	Sulfide	Ag/S 800	0.003...32000 mg/l 10 ⁻⁷ ...1 mol/l	ELY/BR/503	④	–	2-12

① Exchange measuring head
 ② S = solid state electrode, L = matrix electrode, G = glass electrode
 ③ Titration
 ④ Use according to operating instructions
 ⑤ Formulations for additionally required solutions are given in the application steps and operating instructions

1 year guaranty for defects of quality on all ISE sensors

Model	Description	Order No.
ISE Benchtop Meters inoLab®		
inoLab® pH/ION 7320	Precise, menu controlled pH/mV/ISE benchtop meter, with two DIN inputs, for measurements/documentation according GLP/AQA. Meter with universal power supply, stand and operation manual, software and USB cable.	1GA330
inoLab® pH/ION 7320P	Precise, menu controlled pH/mV/ISE benchtop meter, with two DIN inputs, for measurements/documentation according GLP/AQA with built-in thermal printer. Meter with universal power supply, stand and operation manual, software and USB cable.	1GA330P
inoLab® pH/ION 7320 BNC	Precise, menu controlled pH/mV/ISE benchtop meter, with two BNC inputs, for measurements/documentation according GLP/AQA. Meter with universal power supply, stand and operation manual, software and USB cable.	1GA340
inoLab® pH/ION 7320P BNC	Precise, menu controlled pH/mV/ISE benchtop meter, with two BNC inputs, for measurements/documentation according GLP/AQA with built-in thermal printer. Meter with universal power supply, stand and operation manual, software and USB cable.	1GA340P
Portable ISE meter ProfiLine		
pH/ION 3310	Professional pH/mV/ISE meter with DIN socket, backlit graphic display, for mobile application with data logger and USB interface. Single instrument in a case including instruction manual, CD-ROM and batteries, cable.	2GA310
Ionselective Electrodes		
DX 223 NA	Sodium ion-sensitive glass electrode with plug head, 0.05 to 23,000 mg/l, requires reference R 503/D with ELY/BR/503, ionic strength adapter ISA/Na, standard solution ES/Na. Accessories are not included in delivery!	106375
NH 500/2	Ammonia gas-sensitive combination electrode with plug head, 0.02 to 900 mg/l, requires ionic strength adapter MZ/NH3/CN standard solution ES/NH4. 3 exchange heads and 50 ml electrolyte solution.	106395
Ag/S 500 BNC	Silver ion/sulfide selective electrode 3.3 ft (1 m) cable, BNC plug, range 0.01 to 108,000 mg/l, requires reference R 503/D or P with ELY/BR/503, ionic strength adapter ISA/FK for Ag, or according instruction for sulfide measurement. Standard solutions have to be prepared freshly. Accessories are not included in delivery!	106600
Ag/S 500 DIN	Silver ion/sulfide selective electrode with 3.3 ft (1 m) cable, DIN plug, range 0.01 to 108,000 mg/l, requires reference R 503/D or P with ELY/BR/503, ionic strength adapter ISA/FK for Ag, or according instruction for sulfide measurement. Standard solutions have to be prepared freshly. Accessories are not included in delivery!	106601
Br 500 BNC	Bromide selective electrode with 3.3 ft (1 m) cable, BNC plug, range 0.4 to 79,000 mg/l, requires reference R 503/D or /P with ELY/BR/503, ionic strength adapter ISA/FK, standard solution ES/Br. Accessories are not included in delivery!	106602
Br 500 DIN	Bromide selective electrode with 3.3 ft (1 m) cable, DIN plug, range 0.4 to 79,000 mg/l, requires reference R 503/D or /P with ELY/BR/503, ionic strength adapter ISA/FK, standard solution ES/Br. Accessories are not included in delivery!	106603
Ca 500 BNC	Calcium ionselective electrode with 3.3 ft (1 m) cable, BNC plug, 0.02 to 40,000 mg/l, requires reference R 503/D or /P with ELY/BR/503, ionic strength adapter ISA/Ca, standard solution ES/Ca. Accessories are not included in delivery!	106604
Ca 500 DIN	Calcium ionselective electrode with 3.3 ft (1 m) cable, DIN plug, 0.02 to 40,000 mg/l, requires reference R 503/D or /P with ELY/BR/503, ionic strength adapter ISA/Ca, standard solution ES/Ca. Accessories are not included in delivery!	106605
Cl 500 BNC	Chloride selective electrode with 3.3 ft (1 m) cable, BNC plug, 2 to 35,000 mg/l, requires reference R 503/D or /P with ELY/BR/503, ionic strength adapter ISA/FK, standard solution ES/Cl. Accessories are not included in delivery!	106610
Cl 500 DIN	Chloride selective electrode with 3.3 ft (1 m) cable, DIN plug, 2 to 35,000 mg/l, requires reference R 503/D or /P with ELY/BR/503, ionic strength adapter ISA/FK, standard solution ES/Cl. Accessories are not included in delivery!	106611
CN 500 BNC	Cyanide selective electrode with 3.3 ft (1 m) cable, BNC plug, 0.2 to 260 mg/l, requires reference R 503/D or /P with ELY/BR/503, ionic strength adapter MZ/NH3/CN. Standard solutions have to be prepared freshly. Accessories are not included in delivery!	106612
CN 500 DIN	Cyanide selective electrode with 3.3 ft (1 m) cable, DIN plug, 0.2 to 260 mg/l, requires reference R 503/D or /P with ELY/BR/503, ionic strength adapter MZ/NH3/CN. Standard solutions have to be prepared freshly. Accessories are not included in delivery!	106613
Cu 500 BNC	Copper ionselective electrode with 3.3 ft (1 m) cable, BNC plug, 0,0006 to 6400 mg/l, requires reference R 503/D or /P with ELY/BR/503, ionic strength adapter ISA/FK, standard solution ES/Cu. Accessories are not included in delivery!	106614
Cu 500 DIN	Copper ionselective electrode with 3.3 ft (1 m) cable, DIN plug, 0,0006 to 6400 mg/l, requires reference R 503/D or /P with ELY/BR/503, ionic strength adapter ISA/FK, standard solution ES/Cu. Accessories are not included in delivery!	106615
F 500 BNC	Fluoride selective electrode with 3.3 ft (1 m) cable, BNC plug, 0.02 mg/l to saturation, requires reference R 503/D or /P with ELY/BR/503, ionic strength adapter TISAB, standard solution ES/F. Accessories are not included in delivery!	106616
F 500 DIN	Fluoride selective electrode with 3.3 ft (1 m) cable, DIN plug, 0.02 mg/l to saturation, requires reference R 503/D or /P with ELY/BR/503, ionic strength adapter TISAB, standard solution ES/F. Accessories are not included in delivery!	106617
K 500 BNC	Potassium ion selective electrode with 3.3 ft (1 m) cable, BNC plug, 0.04 to 34,000 mg/l, requires reference R 503/D or /P with ELY/BR/503/K, ionic strength adapter ISA/K, standard solution ES/K. Accessories are not included in delivery!	106620
K 500 DIN	Potassium ion selective electrode with 3.3 ft (1 m) cable, DIN plug, 0.04 to 34,000 mg/l, requires reference R 503/D or /P with ELY/BR/503/K, ionic strength adapter ISA/K, standard solution ES/K. Accessories are not included in delivery!	106621

Model	Description	Order No.
NO 500 BNC	Nitrate selective electrode with 3.3 ft (1 m) cable, BNC plug, 0.4 to 62,000 mg/l, requires reference R 503/D or /P with ELY/BR/503/N, ionic strength adapter TISAB/NO ₃ , standard solution ES/NO ₃ . Accessories are not included in delivery!	106624
NO 500 DIN	Nitrate selective electrode with 3.3 ft (1 m) cable, DIN plug, 0.4 to 62,000 mg/l, requires reference R 503/D or /P with ELY/BR/503/N, ionic strength adapter TISAB/NO ₃ , standard solution ES/NO ₃ . Accessories are not included in delivery!	106625
Ag/S 800 BNC	Silver ion/sulfide combined ion selective electrode, 1 m (3.3 ft) cable, BNC plug, 0.003 to 32,000 mg/l, requires ELY/BR/503 reference electrolyte, ionic strength adapter ISA/FK (Ag-ions) or according instruction manual for sulfide measurement. Standard solutions have to be prepared freshly.	106650
Ag/S 800 DIN	Silver ion/sulfide combined ion selective electrode, 1 m (3.3 ft) cable, DIN plug, 0.003 to 32,000 mg/l, requires ELY/BR/503 reference electrolyte, ionic strength adapter ISA/FK (Ag-ions) or according instruction manual for sulfide measurement. Standard solutions have to be prepared freshly.	106651
Br 800 BNC	Combined Bromide selective electrode, 3.3 ft (1 m) cable, BNC plug, 0.4 to 79,000 mg/l, requires ELY/BR/503 reference electrolyte, ionic strength adapter ISA/FK, standard solution ES/Br. Delivery contains electrolyte!	106652
Br 800 DIN	Combined Bromide selective electrode, 3.3 ft (1 m) cable, DIN plug, 0.4 to 79,000 mg/l, requires ELY/BR/503 reference electrolyte, ionic strength adapter ISA/FK, standard solution ES/Br. Delivery contains electrolyte!	106653
Ca 800 BNC	Combined Calcium ion selective electrode, with 3.3 ft (1 m) cable, BNC plug, 0.02 to 40,000 mg/l, requires ELY/BR/503 reference electrolyte, ionic strength adapter ISA/Ca standard solution ES/Ca. Delivery contains electrolyte and exchange heads!	106654
Ca 800 DIN	Combined Calcium ion selective electrode, with 3.3 ft (1 m) cable, DIN plug, 0.02 to 40,000 mg/l, requires ELY/BR/503 reference electrolyte, ionic strength adapter ISA/Ca standard solution ES/Ca. Delivery contains electrolyte and exchange heads!	106655
Cl 800 BNC	Combined Chloride selective electrode, with 3.3 ft (1 m) cable, BNC plug, 2 to 35,000 mg/l, requires ELY/BR/503 reference electrolyte, ionic strength adapter ISA/FK, standard solution ES/Cl. Delivery contains electrolyte!	106660
Cl 800 DIN	Combined Chloride selective electrode, with 3.3 ft (1 m) cable, DIN plug, 2 to 35,000 mg/l, requires ELY/BR/503 reference electrolyte, ionic strength adapter ISA/FK, standard solution ES/Cl. Delivery contains electrolyte!	106661
CN 800 BNC	Combined Cyanide selective electrode, with 3.3 ft (1 m) cable, BNC plug, 0.2 to 260 mg/l requires ELY/BR/503 reference electrolyte, ionic strength adapter MZ/NH ₃ /CN. Standard solutions have to be prepared freshly. Delivery contains electrolyte!	106662
CN 800 DIN	Combined Cyanide selective electrode, with 3.3 ft (1 m) cable, DIN plug, 0.2 to 260 mg/l requires ELY/BR/503 reference electrolyte, ionic strength adapter MZ/NH ₃ /CN. Standard solutions have to be prepared freshly. Delivery contains electrolyte!	106663
Cu 800 BNC	Combined Copper ion selective electrode, with 3.3 ft (1 m) cable, BNC plug, 0.0006 to 6400 mg/l, requires ELY/BR/503 reference electrolyte, ionic strength adapter ISA/FK, standard solution ES/Cu. Delivery contains electrolyte!	106664
Cu 800 DIN	Combined Copper ion selective electrode, with 3.3 ft (1 m) cable, DIN plug, 0.0006 to 6400 mg/l, requires ELY/BR/503 reference electrolyte, ionic strength adapter ISA/FK, standard solution ES/Cu. Delivery contains electrolyte!	106665
F 800 BNC	Combined Fluoride selective electrode, with 3.3 ft (1 m) cable, BNC plug, 0.02 mg/l to saturation, requires ELY/BR/503 reference electrolyte, ionic strength adapter TISAB, standard solution ES/F. Delivery contains electrolyte!	106666
F 800 DIN	Combined Fluoride selective electrode, with 3.3 ft (1 m) cable, DIN plug, 0.02 mg/l to saturation, requires ELY/BR/503 reference electrolyte, ionic strength adapter TISAB, standard solution ES/F. Delivery contains electrolyte!	106667
K 800 BNC	Combined Potassium ion selective electrode, with 3.3 ft (1 m) cable, BNC plug, 0.04 to 39,000 mg/l, requires ELY/BR/503 reference electrolyte, ionic strength adapter ISA/K, standard solution ES/K. Delivery contains electrolyte and exchange heads!	106670
K 800 DIN	Combined Potassium ion selective electrode, with 3.3 ft (1 m) cable, DIN plug, 0.04 to 39,000 mg/l, requires ELY/BR/503/K reference electrolyte, ionic strength adapter ISA/K, standard solution ES/K. Delivery contains electrolyte and exchange heads!	106671
NO 800 BNC	Combined Nitrate selective electrode, with 3.3 ft (1 m) cable, BNC plug, 0.4 to 62,000 mg/l, requires ELY/BR/503/N reference electrolyte, ionic strength adapter TISAB/NO ₃ , standard solution ES/NO ₃ . Delivery contains electrolyte and exchange heads!	106674
NO 800 DIN	Combined Nitrate selective electrode, with 3.3 ft (1 m) cable, DIN plug, 0.4 to 62,000 mg/l, requires ELY/BR/503/N reference electrolyte, ionic strength adapter TISAB/NO ₃ , standard solution ES/NO ₃ . Delivery contains electrolyte and exchange heads!	106675
ISE Reference Electrode		
R 503/D	Reference electrode with electrolyte bridge, fixed cable, banana plug 4 mm diameter.	106571
ELY/BR/503	Universal bridge electrolyte (except for nitrate and potassium measurements) for reference electrode 503, 1 bottle, contents 250 ml.	106575
ELY/BR/503/N	Bridge electrolyte for nitrate measurements, for reference electrode 503, 1 bottle, contents 250 ml.	106576
ELY/BR/503/K	Bridge electrolyte for potassium measurements, for reference electrode 503, 1 bottle, contents 250 ml.	106577

Model	Description	Order No.
ISE Sample Conditioning Solutions		
ISA/K	ISA solution for potassium measurements, 1 bottle with 250 ml.	106580
TISAB	TISAB total ionic strength buffer solution for fluoride electrode, 4 bottles with 1 l each.	140100
ISA/FK	ISA sample conditioning solution for for solid state electrodes, NaNO ₃ , 5 mol/l, 2 bottles with 250 ml each.	140110
ISA/Ca	ISA sample conditioning solution for calcium electrode, KCl, 4 mol/l, 1 bottle with 250 ml.	140120
ISA/Ag/FI	ISA for determination of silver in fixer solution for Silver/Sulfide electrode Ag 500, 4 bottles with 1 l each.	140140
TISAB/NO₃	TISAB total ionic strength buffer solution for nitrate electrodes, 4 bottles with 1 l each.	150120
ISA/Na	Total ionic strength buffer solution pH 11, 1 bottle with 1 l.	150125
MZ/NH₃/CN	Alkaline reagent, NaOH, 10 mol/l, 1 bottle with 250 ml.	150130
ISE Standard Solutions		
ES/Br	Standard solution: 10 g/l bromide, 1 bottle with 1 l	120120
ES/Cl	Standard solution: 10 g/l chloride, 1 bottle with 1 l	120140
ES/F	Standard solution: 10 g/l fluoride, 1 bottle with 1 l	120160
ES/I	Standard solution: 10 g/l iodide, 1 bottle with 1 l	120180
ES/Cu	Standard solution: 10 g/l copper, 1 bottle with 1 l	120190
ES/Ca	Standard solution: 10 g/l calcium, 1 bottle with 1 l	120200
ES/K	Standard solution: 10 g/l potassium, 1 bottle with 1 l	120210
ES/NO₃	Standard solution: 10 g/l nitrate, 1 bottle with 1 l	120220
ES/Na	Standard solution: 10 g/l sodium, 1 bottle with 1 l	120222
ES/NH₄	Standard solution: 10 g/l ammonium, 1 bottle with 1 l	120240
ISE Special Accessories		
NT USB Universal	<i>New</i> Universal USB power supply for ProfiLine 33x0 portable meters and WLM Charger.	902872
Ca 500/AT	Exchange head for Calcium selective electrode Ca 500.	106606
K 500/AT	Exchange head for Potassium ion selective electrode K 500	106622
NO 500/AT	Exchange head for Nitrate selective electrode NO 500.	106626
Ca 800/AT	Exchange head for combined Calcium-ion selective electrode Ca 800.	106656
K 800/AT	Exchange head for Potassium-ion selective electrode K 800.	106672
NO 800/AT	Exchange head for Nitrate selective electrode NO 800.	106676
STH 650	Benchtop stand for pH electrodes, ion-sensitive electrodes, reference electrodes, temp sensors, oxygen sensors and TetraCon® 325 cond cells.	109809
ZBK/NH₃/2	Accessory box for ammonia electrode NH 500/2, 3 exchange heads and 50 ml electrolyte solution.	180100
S/FK	Polishing strips for solid state electrodes, 24 pcs.	180130

Oxygen

Application Range Oxygen Meters						
● recommended by WTW ○ conditionally applicable - not recommended						
Application Range	inoLab®		Portable Meters			
	Multi IDS ^{inoLab} Multi 9310 IDS/9620 IDS /9630 IDS	Oxi 7310	MultiLine® IDS ^{inoLab} Multi 3510 IDS	MultiLine® IDS ^{inoLab} Multi 3620 IDS/3630 IDS	ProfiLine	
					Oxi 3205	Oxi 3310
Routine measurement	○	-	○	○	●	-
Routine measurement with documentation	●	●	●	●	-	●
AQA with documentation	●	●	●	●	-	●
R&D high precision	●	●	●	●	-	●
Control measurements	●	●	●	●	○	●
LIMS connection	●	●	●	●	-	●
Quality assurance	●	●	●	●	-	●
Training	○	●	○	○	○	○
Service	-	-	●	●	●	●
Laboratory measurements	●	●	○	○	-	○
Field measurements	-	-	●	●	●	●
Depth measurements	-	-	●	●	-	-
PC connection	●	●	●	●	-	●
BOD measurements with self-stirring sensor	-	●	-	-	-	-

Application Range Sensors					
Application Range	FDO 925 ^{inoLab}	ConOx	DurOx®	CellOx® 325	StirrOx® G
BOD measurements	●	-	-	○	●
Fish farming	○	●	●	○	-
Surface waters	●	●	○	●	-
Ground water	●	○	-	○	-
Control measurements	●	●	●	●	○
Depth measurements	●	-	-	-	-
Laboratory measurements	●	○	-	●	●
Pharmaceutics	●	○	○	●	-
Biotechnology (non-autoclavable)	●	○	○	●	-
Wastewater treatment plant: aeration basin	●	○	●	○	-
<i>applicable instruments:</i>	<i>Oxi 3310 IDS, MultiLine® IDS, inoLab® Multi IDS</i>	<i>Multi 350i/3500i*</i>	<i>ProfiLine Oxi, Multi 350i/3500i*</i>	<i>all, except MultiLine®IDS, Oxi 3310 IDS</i>	<i>inoLab® Oxi 7310, 1970i</i>
<i>2 years guaranty for defects of quality for all D.O. electrodes</i>					

* North American version

Model	Description	Order No.
Laboratory Oxygen Meters inoLab®		
inoLab® Oxi 7310	Professional dissolved oxygen meter, menu controlled, for measurements / documentation according GLP/AQA. For AC and battery operation. Meter with universal power supply, stand and operation manual, software and USB cable.	1BA300
inoLab® Oxi 7310P	Professional dissolved oxygen meter, menu controlled, for measurements / documentation according GLP/AQA, with integrated thermal printer. Meter with universal power supply, stand and operation manual, software and USB cable.	1BA300P
inoLab® Oxi 7310 SET 1	Professional dissolved oxygen meter, menu controlled, for measurements / documentation according GLP/AQA. Set including galvanic D.O. sensor. Meter with universal power supply, stand and operation manual, galvanic D.O. sensor CelloX® 325, abrasive foil, electrolyte, cleaning solution, replacement caps, CD-ROM incl. Software, USB cable.	1BA301
inoLab® Oxi 7310 SET 4	Professional dissolved oxygen meter, menu controlled, for measurements / documentation according GLP/AQA. Set including galvanic D.O. sensor. Meter with universal power supply, stand and operation manual, self stirring galvanic D.O. sensor StirrOx® G, abrasive foil, electrolyte, cleaning solution, replacement caps, CD-ROM incl. Software, USB cable.	1BA304
Portable Oxygen Meters ProfiLine		
Oxi 3205	Easy-to-operate, robust DO meter with backlit LCD graphic display, for routine measurement, single instrument. Single instrument in a case including short instruction manual, CD-ROM and batteries.	2BA100
Oxi 3205 SET 1	Easy-to-operate, robust DO meter with backlit LCD graphic display, for routine measurement, set including CelloX® 325. Meter with carry case including galvanic DO sensor CelloX® 325, cleaning solution, electrolyte, exchange membrane heads, stand, beaker. Including short instruction manual, CD-ROM and batteries.	2BA101
Oxi 3310	Professional, field proven DO meter with backlit graphic display for portable application including data logger and USB interface. Single instrument in a case including short instruction manual, CD-ROM and batteries.	2BA300
Oxi 3310 SET 1	Professional, field proven DO meter with backlit graphic display for portable application including data logger and USB interface, set including CelloX® 325. Meter with carry case including galvanic DO sensor CelloX® 325, cleaning solution, electrolyte, 3 exchange membrane heads, stand, beaker. Including short instruction manual CD-ROM, batteries, driver software for USB, cable.	2BA301
Protective Armoring Handheld DO Meter		
KS ProfiLine Oxi	Kit without sensor or meter. Accessories for Oxi ProfiLine portables including case, stand.	2B0001
SM Pro	Shock absorbing rubber elastic protective armoring for ProfiLine and MultiLine® portable meters.	902780
SM 325	Shock absorbing elastic armoring for 3xx and 3xxi portable meters with folding support and electrode cable clamping device.	902818
Oxygen Sensors		
CellOx®		
CellOx® 325	Galvanic oxygen sensor with OxiCal®-SL calibration and storage vessel, waterproof plug (IP 67), cable length 1.5m (4.9 ft), incl. Cleaning solution, abrasive foil, 3 exchange membrane heads and electrolyte.	201533
CellOx® 325-3	Galvanic oxygen sensor with OxiCal®-SL calibration and storage vessel, waterproof plug (IP 67), cable length 3 m (9.9 ft), incl. Cleaning solution, abrasive foil, 3 exchange membrane heads and electrolyte.	201545
CellOx® 325-6	Galvanic oxygen sensor with OxiCal®-SL calibration and storage vessel, waterproof plug (IP 67), cable length 6 m (19.8 ft), incl. Cleaning solution, abrasive foil, 3 exchange membrane heads and electrolyte.	201546
CellOx® 325-10	Galvanic oxygen sensor with OxiCal®-SL calibration and storage vessel, waterproof plug (IP 67), cable length 33 ft (10m), incl. cleaning solution, abrasive foil, 3 exchange membrane heads and electrolyte.	201547
CellOx® 325-15	Galvanic oxygen sensor with OxiCal®-SL calibration and storage vessel, waterproof plug (IP 67), cable length 49.5 ft (15m), incl. cleaning solution, abrasive foil, 3 exchange membrane heads and electrolyte.	201548
CellOx® 325-20	Galvanic oxygen sensor with OxiCal®-SL calibration and storage vessel, waterproof plug (IP 67), cable length 65.6 ft (20m), incl. cleaning solution, abrasive foil, 3 exchange membrane heads and electrolyte.	201549
SK-325	Protective hood for A 325/K or A 325/S respectively A 925/K or A 925/S.	201580
ZBK 325	Accessory case with spare parts and maintenance supplies for oxygen sensors CellOx® 325, TA 197 Oxi, ConOx and MPP 350 Ox module, Cleaning solution, abrasive foil, 3 exchange membrane heads and electrolyte.	202706
WP 90/3	3 exchange membrane heads for all DO sensors, except StirrOx® G and DurOx® 325.	202725
RZ 300	Attachment stirrer for constant approach flow in combination with a magnetic stirrer, e.g. Oxi-Stirrer 300. For CellOx® 325, FDO® 925.	203824
BR 325	Battery-powered stirrer for profile and depth measurements in combination with A 325/K for CellOx® 325 or TA 197 Oxi, with battery, pressure-resistant up to 10 bars.	203826
RL-G	Cleaning solution for galvanic oxygen sensors StirrOx® G, CellOx® 325, DurOx® 325, TA 197 Oxi, ConOx and MPP 350 Ox module, 1 bottle with 30 ml.	205204
ELY/G	Electrolyte for galvanic oxygen sensors StirrOx® G, CellOx® 325, DurOx® 325, TA 197 Oxi ConOx and MPP 350 Ox module, 1 bottle with 50 ml.	205217

Model	Description	Order No.
A 325/K	Plastic armoring with protective hood for oxygen sensor CellOx® 325... and conductivity cell TetraCon® 325...	903830
A 325/S	Steel armoring with stainless steel protective hood for oxygen sensor CellOx® 325... and conductivity cell TetraCon® 325...	903831
DurOx®		
DurOx® 325-3	Galvanic oxygen sensor with OxiCal®-SL calibration and storage vessel, waterproof plug (IP 67), cable length 9.9 ft (3 m), 1 exchange membrane head and electrolyte, cleaning solution, abrasive foil.	201570
SK-D	Protective hood for DurOx® sensor.	201575
ZBK-D	Accessory box with spare parts and maintenance supplies for DurOx® sensor, 3 exchange membrane heads and electrolyte, cleaning solution, abrasive foil.	201578
OxiCal® -D	Calibration vessel for DurOx® sensors.	201579
WP3-D	3 exchange membrane heads for DurOx® sensors.	202740
RL-G	Cleaning solution for galvanic oxygen sensors StirrOx® G, CellOx® 325, DurOx® 325, TA 197 Oxi, ConOx and MPP 350 Ox module, 1 bottle with 30 ml.	205204
ELY/G	Electrolyte for galvanic oxygen sensors StirrOx® G, CellOx® 325, DurOx® 325, TA 197 Oxi ConOx and MPP 350 Ox module, 1 bottle with 50 ml.	205217
FDO®		
FDO® 925	Optical IDS DO sensor for field and laboratory applications with fast responding bevelled membrane, with 1.5 m (4.9 ft) fixed cable with waterproof digital connector.	201300
FDO® 925-3	Optical IDS DO sensor for field and laboratory applications with fast responding bevelled membrane, with 3 m (9.7 ft) fixed cable with waterproof digital connector.	201301
FDO® 925-P	Optical IDS DO sensor for field and lab applications with fast responding beveled membrane, pressure resistant up to 10 bars. Electrode with waterproof plug head for connection to a MPP IDS, wireless module or AS/IDS-x	201306
SC-FDO® 925	Exchange cap for FDO® 925 type sensors	201310
FDO® Check	Replacement check and calibration vessel for FDO® 925 type sensors	201311
ADA FDO®/RZ	Replacement stainless steel adapter for mounting a RZ 300 magnetic stirrer paddle for BOD measurement on a FDO® 925, also suitable as membrane protection.	201312
FN FDO®	Cap nut for fixing the membrane cap of a FDO® 925 instead of standard ADA FDO®/RZ for special applications in viscous liquids or flow-through vessels.	201313
A 925-P	Armor for IDS field sensors without guard designed for TetraCon® 925-P, SensoLyt® 900-P, SensoLyt® ORP 900-P, FDO® 925-P. material: POM	903838
A 925-P/K	Armor for IDS field sensors including guard designed for TetraCon® 925-P, SensoLyt® 900-P, SensoLyt® ORP 900-P, FDO® 925-P, VisoTurb® 900-P, material: POM.	903839
A 925-P/S	Armor for IDS field sensors including guard designed for TetraCon® 925-P, SensoLyt® 900-P, SensoLyt® ORP 900-P, FDO® 925-P. Guard: Stainless steel.	903840
StirrOx®		
StirrOx® G	Self-stirring oxygen sensor for determination in Karlsruhe bottles and Winkler bottles with OxiCal®-ST calibration and storage vessel, 3 exchange membrane heads, cleaning solution, electrolyte and abrasive foil.	201425
ZBK ST	Accessory box with spare parts and maintenance supplies for StirrOx® G oxygen sensors, cleaning solution, abrasive foil, 3 exchange membrane heads and electrolyte.	202710
WP3-ST	3 exchange membrane heads for StirrOx® G.	202738
RL-G	Cleaning solution for galvanic oxygen sensors StirrOx® G, CellOx® 325, DurOx® 325, TA 197 Oxi, ConOx and MPP 350 Ox module, 1 bottle with 30 ml.	205204
ELY/G	Electrolyte for galvanic oxygen sensors StirrOx® G, CellOx® 325, DurOx® 325, TA 197 Oxi ConOx and MPP 350 Ox module, 1 bottle with 50 ml.	205217
Sta-ST	Stand base for OxiCal®-ST calibration and storage vessel for StirrOx® G oxygen sensor.	205348
OxiCal®-ST	Calibration and storage vessel for StirrOx® G for precision calibration in water vapor saturated air.	205349
IDS Wireless Modules for FDO 925 with Plug Head		
IDS WLM-S	<i>New</i> Wireless module for IDS plug head sensors for radio transmission of measurement values. Includes rechargeable LiPo-battery. Splash water protected according IP 43.	108141
IDS WLM-M	<i>New</i> Wireless module for connecting to MultiLine® 3310/3510/36x0 IDS, inoLab® Multi IDS and MonoLine. Connects up to three sensors at the same time (depends on meter capabilities).	108142
WLM Charger	<i>New</i> Charger without external power supply for charging IDS WLM-S modules, with USB plug, cascable, with USB cable. For charging via PC or external USB power supply.	108143
IDS WLM Kit	<i>New</i> Kit consisting of one of each IDS WLM-S, IDS WLM-M and WLM Charger including USB power supply for wireless operation of IDS plug head sensors.	108144
Cables for FDO 925 with Plug Head		
AS/IDS-1.5	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 1.5 m.	903850
AS/IDS-3	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 3 m.	903851
AS/IDS-6	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 6 m.	903852
AS/IDS-10	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 10 m.	903853

Model	Description	Order No.
AS/IDS-15	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 15 m.	903854
AS/IDS-20	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 20 m.	903855
AS/IDS-40	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 40 m. Stored on reel (included)	903857
AS/IDS-60	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 60 m. Stored on reel (included)	903858
AS/IDS-25	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 25 m. Stored on reel (included)	903856
AS/IDS-100	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 100 m. Stored on reel (included)	903859
Sensor Accessories for D.O. Sensors		
SF 300	Cathode cleaner (abrasive foil) for WTW oxygen sensors of TriOxmatic® and CellOx® series	203680
D 201	Flow-through vessel for CellOx® 325 or TetraCon® 325 conductivity cell.	203730
KF 12	Karlsruhe bottles, incl. 60 mm ground stoppers suitable for BOD determination. Minimum order 10 bottles.	205700
TS 19	Funnel set for BOD determination in NS 19 Winkler bottles.	205710
FD 19/KA	Fixing cover for Karlsruher bottle KF 12.	205711
FR 19	Fixing ring, recommended for measurements in Karlsruhe bottles for CellOx® 325 or FDO® 925	205712
Calibration Vessels for Oxygen Sensors		
FDO® Check	Replacement check and calibration vessel for FDO® 925 type sensors	201311
OxiCal® -D	Calibration vessel for DurOx® sensors.	201579
OxiCal® -ST	Calibration and storage vessel for StirrOx® G for precision calibration in water vapor saturated air.	205349
OxiCal® -SL	Standard calibration and storage sleeve for precision calibration in water vapor saturated air.	205362
OxiCal® -CX	Calibration vessel for ConOx conductivity/ DO combination sensor.	205400
Accessories for Old Sensors/Additional Accessories		
STH 320	Stand for case	902803
NT USB Universal	<i>New</i> Universal USB power supply for ProfiLine 33x0 portable meters and WLM Charger.	902872
ZBK 90/190	Accessory box with spare parts for all amperometric oxygen sensors. Case, cleaning solution, abrasive foil, 3 exchange membrane heads and electrolyte.	202410
WP 90/3	3 exchange membrane heads for all DO sensors, except StirrOx® G and DurOx® 325.	202725
RL-AG/Oxi	Cleaning solution for the silver anode of DO sensors of TriOxmatic® series, 1 bottle with 50 ml.	205200
ELY/N	Electrolyte for amperometric oxygen sensors, 1 bottle with 50 ml.	205210
D. O. Depth Armatures (Accessories for old Products)		
BR 325	Battery-powered stirrer for profile and depth measurements in combination with A 325/K for CellOx® 325 or TA 197 Oxi, with battery, pressure-resistant up to 10 bars.	203826

Conductivity

Application Range Conductivity Measurements							
● recommended by WTW ○ conditionally applicable - not recommended							
Application Range	inoLab®			Portable Meters			
	Multi IDS ^{noB} Multi 9310 IDS/9620 IDS /9630 IDS	Cond 7110	Cond 7310	MultiLine® IDS ^{noB} Multi 3510 IDS	MultiLine® IDS ^{noB} Multi 3620 IDS/3630 IDS	ProfiLine	
						Cond 3110	Cond 3310
Routine measurement	○	●	-	○	○	●	-
Routine measurement with documentation	●	-	●	●	●	-	●
AQA with documentation	●	-	●	●	●	-	●
R&D high precision	●	-	●	●	●	-	●
Control measurements	●	-	●	●	●	-	●
LIMS connection	●	-	●	●	●	-	●
Quality assurance	●	-	●	●	●	-	●
Training	○	●	●	○	○	●	○
Service	-	-	-	●	●	●	●
Laboratory measurements	●	●	●	○	○	-	○
Field measurements	-	-	-	●	●	●	●
Depth measurements	-	-	-	●	●	-	-
PC connection	●	-	●	●	●	-	●
Salinity/TDS measurement	● / ●	● / ●	● / ●	● / ●	● / ●	● / -	● / ●
Specific resistance	●	●	●	●	●	-	●
Suitable for Pharmacopoeia	-	●	●	-	-	-	●
Measurement of ultrapure water	●	●	●	●	●	-	●
Trace conductivity	-	●	●	-	-	-	●

Application Range Sensors	KLE 325	TetraCon®			LR		TetraCon® 925 ^{noB}	TetraCon® LV ^{noB}	LR 925/01 ^{noB}
		325	325/S	DU/T	325/01	325/001			
Chemical water	○	○	-	●	-	-	○	○	-
Ultrapure water (Pharmacopoeia)	-	-	-	-	●	●	-	-	●
Ground water	●	●	-	-	-	-	●	●	-
Surface water	●	●	-	-	-	-	●	●	-
Depth measurements (barrages)	-	○	-	-	-	-	○	○	-
Laboratory measurements	●	●	-	-	●	●	●	●	●
Food industry (juices)	-	●	-	○	-	-	●	●	-
Swimming pools	●	●	-	○	-	-	●	●	-
Pharmaceutics	○	●	-	○	●	○	●	●	●
Cosmetics/Detergents	-	-	●	-	-	-	-	●	-
Semi-conductor industry	-	-	-	-	●	●	-	-	●
Paint/Varnish (water-soluble)	-	○	○	-	-	-	○	●	-
Electroplating	-	●	-	-	-	-	●	●	-
Applicable instruments::	①	②	③	③	③	③	only MultiLine® IDS, Cond 3310 IDS and inoLab® Multi IDS		
	① ProfiLine Cond 3110, 3210, 3310								
	② all analog instruments/ except VARIO®								
	③ all analog instruments/ except VARIO® + Cond 3110								
2 years guaranty for defects of quality for all conductivity sensors									

Model	Description	Order No.
Laboratory Conductivity Meters inoLab®		
inoLab® Cond 7110	Easy-to-operate basic conductivity benchtop meter for routine measurement. For AC and battery operation. Meter with universal power supply, stand and operation manual.	1CA100
inoLab® Cond 7110 SET 1	Easy-to-operate basic conductivity benchtop meter for routine measurement. For AC and battery operation. Set including conductivity cell. Meter with universal power supply, stand and operation manual. Incl. 4-electrode graphite conductivity cell TetraCon® 325, 0.01 mol/l KCl conductivity standard.	1CA101
inoLab® Cond 7310	Precise and convenient conductivity meter, menu controlled, for measurements/documentation according GLP/AQA. For AC and battery operation. Meter with universal power supply, stand and operation manual. software and USB cable.	1CA300
inoLab® Cond 7310P	Precise and convenient conductivity meter, menu controlled, for measurements/documentation according GLP/AQA, with integrated thermal printer. Meter with universal power supply, stand and operation manual, software and USB cable.	1CA300P
inoLab® Cond 7310 SET 1	Precise and convenient conductivity meter, menu controlled, for measurements/documentation according GLP/AQA. For AC and battery operation. Set including conductivity cell. Meter with universal power supply, stand and operation manual. Including 4-electrode graphite conductivity cell TetraCon® 325, 0.01 mol/l KCl conductivity standard, software and USB cable.	1CA301
Portable Conductivity Meters ProfiLine		
Cond 3110	Easy-to-operate, robust conductivity meter with large LCD-display, for routine field application, for 2- and 4-electrode cells. Single instrument in a case including short instruction manual, CD-ROM and batteries.	2CA100
Cond 3110 SET 1	Easy-to-operate, robust conductivity meter with large LCD-Display, for routine field application, for 2- and 4-electrode cells, set including TetraCon® 325. Meter with carry case including 4-electrode conductivity cell TetraCon® 325, standard solution 1413 µS/cm at 25 °C, stand, beaker, short instruction manual, CD-ROM and batteries.	2CA101
Cond 3310	Professional, field proven conductivity meter with backlit LCD-graphic display for field application including data logger, USB-interface. Single instrument in a case including short instruction manual, CD-ROM and batteries.	2CA300
Cond 3310 SET 1	Professional, field proven conductivity meter with backlit graphic display for field application including data logger, USB-interface. Meter with carry case including 4-electrode conductivity cell TetraCon® 325, standard solution 1413 µS/cm at 25 °C, stand, beaker, short instruction manual, CD-ROM and batteries, driver software for USB, cable.	2CA301
Protective Armorings Handheld Conductivity Meter		
SM Pro	Shock absorbing rubber elastic protective armoring for ProfiLine and MultiLine® portable meters.	902780
SM 325	Shock absorbing elastic armoring for 3xx and 3xxi portable meters with folding support and electrode cable clamping device.	902818
Portable Conductivity Meter VARIO® Cond		
TetraCon® V	4-electrode conductivity cell with integrated temperature sensor for mounting on VARIO® Cond.	301990
LR01 V	Ultrapure water conductivity cell with integrated temperature sensor for mounting on VARIO® Cond, flow-through vessel D 01/T included.	301992
Conductivity Cells		
Standard Conductivity Cells		
TetraCon® 325	4-electrode conductivity cell with built-in temperature sensor, 4.9 ft (1.5 m) cable and waterproof plug, cell constant K = 0.475 cm ⁻¹	301960
LR 325/01	Ultrapure water conductivity cell with built-in temperature sensor and waterproof plug, cell const. K = 0.1 cm ⁻¹ , glass flow-through vessel D01/T	301961
LR 325/001	Trace conductivity cell with built-in temperature sensor, cable and waterproof plug, cell constant K = 0.01 cm ⁻¹ , stainless steel flow-through vessel	301962
TetraCon® 325-3	4-electrode conductivity cell with built-in temperature sensor, 9.8 ft (3 m) cable and waterproof plug, cell constant K = 0.475 cm ⁻¹	301970
TetraCon® 325-6	4-electrode conductivity cell with built-in temperature sensor, 19.8 ft (6 m) cable and waterproof plug, cell constant K = 0.475 cm ⁻¹	301971
TetraCon® 325-10	4-electrode conductivity cell with built-in temperature sensor, 33 ft (10 m) cable and waterproof plug, cell constant K = 0.475 cm ⁻¹	301972
TetraCon® 325-15	4-electrode conductivity cell with built-in temperature sensor, 49.5 ft (15 m) cable and waterproof plug, cell constant K = 0.475 cm ⁻¹	301973
TetraCon® 325-20	4-electrode conductivity cell with built-in temperature sensor, 65 ft (20 m) cable and waterproof plug, cell constant K = 0.475 cm ⁻¹	301974
KLE 325	2-electrode conductivity cell with built-in temperature sensor and 1.5 m (4.9 ft) cable. Measuring range 1 µS/cm to 20 mS/cm. Temperature 0 to 80° C. Cell constant K=0.84 cm ⁻¹ .	301995
IDS Conductivity Cells		
TetraCon® 925/LV	4-electrode-IDS conductivity cell with graphite electrodes, epoxy shaft, cell constant 0.469 cm ⁻¹ , fork design. With 1.5 m fixed cable with waterproof digital connector. For measurement of small volumes (about 2.5 ml) and viscous samples.	301718
TetraCon® 925	4-electrode-IDS conductivity cell with graphite electrodes, epoxy shaft, cell constant 0.475 cm ⁻¹ , with 1.5 m fixed cable with waterproof digital connector.	301710
TetraCon® 925-3	4-electrode-IDS conductivity cell with graphite electrodes, epoxy shaft, cell constant 0.475 cm ⁻¹ , with 3 m fixed cable with waterproof digital connector.	301711

Model	Description	Order No.
TetraCon® 925-P	4-electrodes IDS conductivity cell with graphite electrodes, epoxy shaft, cell constant 0.475 1 cm ⁻¹ . Electrode with waterproof plug head for connection to a MPP IDS, wireless module or AS/IDS-x.	301716
TetraCon® 925/LV-P	4-electrode-IDS conductivity cell with graphite electrodes, epoxy shaft, cell constant 0.469 cm ⁻¹ , fork design. with plug head for AS IDS/x cables or wireless module. For measurement of small volumes (about 2.5 ml) and viscous samples.	301719
LR 925/01	2-electrode-IDS conductivity cell with stainless steel electrodes for ultra pure water, cell constant 0.1 cm ⁻¹ , with 1.5 m fixed cable with waterproof digital connector, glass flow trough vessel.	301720
TetraCon® 925/C	4-electrode-IDS conductivity cell with graphite electrodes, epoxy shaft, PEEK head for use in acid contaminated environments, cell constant 0.475 cm ⁻¹ , with 1.5 m fixed cable with waterproof digital connector for MultiLine®, MonoLine or inoLab® IDS.	301721
LR 925/01-P	2-electrode-IDS conductivity cell with stainless steel electrodes, for ultrapure water, cell constant 0.1 cm ⁻¹ , with plug head for AS/IDS-x cable or wireless module, glass flow trough vessel.	301722
A 925-P	Armor for IDS field sensors without guard designed for TetraCon® 925-P, SensoLyt® 900-P, SensoLyt® ORP 900-P, FDO® 925-P. material: POM	903838
A 925-P/K	Armor for IDS field sensors including guard designed for TetraCon® 925-P, SensoLyt® 900-P, SensoLyt® ORP 900-P, FDO® 925-P, VisoTurb® 900-P, material: POM.	903839
A 925-P/S	Armor for IDS field sensors including guard designed for TetraCon® 925-P, SensoLyt® 900-P, SensoLyt® ORP 900-P, FDO® 925-P. Guard: Stainless steel.	903840
Flow-Through Conductivity Cells		
TetraCon® DU/T	4-electrode flow-through conductivity cell with built-in temperature sensor for all standard applications, cell constant: K = 0,778 cm ⁻¹	301252
TetraCon® DU/TH	4-electrode flow-through conductivity cell with built-in temperature sensor, cell constant: K = 0.778 cm ⁻¹ .	301254
KKDU 325	Connection cable, 3.3 ft (1 m), 8-pin plug, for flow-through conductivity cells TetraCon® DU/T, TetraCon® DU/TH, KDU 1/T and KDU 1/TH	301963
Special Conductivity Cells		
LTA 1	2-electrode glass/platinum conductivity cell, cell constant K = approx. 1.0 cm ⁻¹ , (Adapter cable K/LTA required).	301310
K-LTA	Adapter cable for connection of 2-electrode conductivity cells and temperature sensors TFK 325 or TFK 150.	301429
TetraCon® 325 S	4-electrode-conductivity cell with built-in temperature sensor, 4.9 ft (1.5 m) cable and waterproof plug, cell constant K = 0.491 cm ⁻¹ ,	301602
TetraCon® 325/C	4-electrode-conductivity cell with built-in temperature sensor, 1.5 m (4.5 ft) cable, water proof plug, cell constant K= 0.475 cm ⁻¹ , for application in acidic environments, head made of PEEK.	301900
IDS Wireless Modules for IDS Conductivity Cells with Plug Head		
IDS WLM-S	<i>New</i> Wireless module for IDS plug head sensors for radio transmission of measurement values. Includes rechargeable LiPo-battery. Splash water protected according IP 43.	108141
IDS WLM-M	<i>New</i> Wireless module for connecting to MultiLine® 3310/3510/36x0 IDS, inoLab® Multi IDS and MonoLine. Connects up to three sensors at the same time (depends on meter capabilities).	108142
WLM Charger	<i>New</i> Charger without external power supply for charging IDS WLM-S modules, with USB plug, cascable, with USB cable. For charging via PC or external USB power supply.	108143
IDS WLM Kit	<i>New</i> Kit consisting of one of each IDS WLM-S, IDS WLM-M and WLM Charger including USB power supply for wireless operation of IDS plug head sensors.	108144
Cables for IDS Conductivity Cells with Plug Head		
AS/IDS-1.5	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 1.5 m.	903850
AS/IDS-3	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 3 m.	903851
AS/IDS-6	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 6 m.	903852
AS/IDS-10	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 10 m.	903853
AS/IDS-15	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 15 m.	903854
AS/IDS-20	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 20 m.	903855
AS/IDS-25	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 25 m. Stored on reel (included)	903856
AS/IDS-40	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 40 m. Stored on reel (included)	903857
AS/IDS-60	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 60 m. Stored on reel (included)	903858
AS/IDS-100	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head. Length 100 m. Stored on reel (included)	903859

Selection Guide															
Measuring cell	MultiLine® IDS ^{U_b} Cond 3310 IDS inoLab® Multi IDS	ProfiLine Cond 3110	ProfiLine Cond 3210/3310, pH/Cond 3320, Multi 3320	VARIO® Cond	Cond 315i/3150i*	LF 318	LF 320/323/325	LF 330/340A	Cond 330i/3300i*/ 340i/3400i*	inoLab® Cond, pH/Cond, Multi	MultiLine® P4, Multi 340i, Multi 197i, Multi 1970i	MultiLine® P3 pH/LF, pH/Cond 340i/3400i*	Multi 350i/3500i*	LF 197, LF 597	Cond 1970i/197i
KLE 325		●	●												
LTA 1			②			②	②	②	②	②		②	②		②
TetraCon® 325, TetraCon® 325/C		●	●		●	●	●	●	●	●	●	●	●	●	●
TetraCon® 925 ^{U_b} TetraCon® 925/C TetraCon® 925/LV	●														
TetraCon® DU/T			⑤				⑤	⑤	⑤	⑤			⑤	⑤	⑤
TetraCon® DU/TH			⑤				⑤	⑤	⑤	⑤			⑤	⑤	⑤
LR 325/01			●		●		●	●	●	●			●	●	●
LR 925/01 ^{U_b}	●														
LR 325/001			●					●	●	●			●		●
TetraCon® 325/S			●					●	●	●			●	●	●
ConOx													●		
TetraCon® V				●											
LR01 V				●											
Adapter (possible conversion with cell constants) is required:															
② Adapter cable <i>K/LTA</i> together with temperature sensor <i>TFK 325</i> or <i>TFK 150</i>															
④ Connection cable <i>KKDU</i>															
⑤ Connection cable <i>KKDU 325</i>															

* North American version

Conductivity

Model	Description	Order No.
Calibration and Testing Agents for Conductivity		
USP KIT 2	Kit for conductivity measuring according pharmacopoeia. Testing set consisting of 6R/SET/Lab1, LR 325/01 ultrapure water conductivity cell, stainless steel flow-through vessel, NIST traceable 5 µS/cm standard (accuracy ±2%).	300568
USP KIT 1	Kit for conductivity measuring according pharmacopoeia. Testing set consisting of 6R/SET/Lab1, LR 325/01 ultrapure water conductivity cell, D 01/T flow-through vessel, NIST traceable 5 µS/cm standard (accuracy ±2%).	300569
E-SET Trace	Calibration set for conductivity measurement, 6 bottles with 50 ml calibration and control standard each, KCl 0.01 mol/l, traceable to PTB/NIST.	300572
KS 100 µS	Calibration standard 100 µS/cm, shelf life 2 years, NIST traceable, accuracy ±3%.	300578
KS 5 µS	Calibration standard 5 µS/cm, shelf life 1 year, NIST traceable, accuracy ±2%.	300580
6R/SET/LAB1	Test set for checking all conductivity meters with waterproof 8-pin socket according to ISO 9000.	302870
Additional Accessories Conductivity Measurement		
KS ProfiLine Cond	Kit without sensor or meter. Accessories for Cond ProfiLine portable meters including case, stand and 0.01 mol/l KCl standard solution.	2C0001
STH 320	Stand for case	902803
NT USB Universal	<i>New</i> Universal USB power supply for ProfiLine 33x0 portable meters and WLM Charger.	902872
STH 650	Benchtop stand for pH electrodes, ion-sensitive electrodes, reference electrodes, temp sensors, oxygen sensors and TetraCon® 325 cond cells.	109809
Flow-thru Vessel for Conductivity Cells		
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 201	Flow-through vessel for CellOx® 325 or TetraCon® 325 conductivity cell.	203730
D 1/T	Flow-through vessel, suitable for cond. cells TetraCon® 96-1,5, TetraCon® 96 and KLE 1, I.D. 24 mm, V* = 36 ml (without sensor).	302730
D01/T	Flow-through vessel, suitable for cond. cells LR 01/T, LTA 01 and LR 325/01, I.D. 18 mm V* = 1 ml (without sensor).	302750
D001	Replacement flow through vessel for LR 325/001.	302760

BOD/Respiration

Dilution BOD, BOD self-check measurement, Respiration, Biogas determination

Application Range			
	OxiTop®	OxiTop® Control OC 100	OxiTop® Control OC 110
Application	BOD routine	BOD routine, BOD standard	BOD routine, standard and BOD special, Respiration/ Dilution, Soil respiration, Biodegradability, Biogas deter- mination
BOD range	0 - 4,000 mg/l	0 - 4,000 mg/l	0 - 400,000 mg/l
Measured value memory	5 days	0.5 h - 99 days	0.5 h - 99 days
Pressure mode	-	-	Pressure p 500 - 1,350 hPa
Sample volume	Fixed	Fixed	Definable

Composition of complete packages						
	OxiTop®	OxiTop® Control				
Accessories	IS 6/ IS 12	6 / 12	B6 / B6M / B6M 2.5	A6 / A12	S6 / S12	AN6 / AN12
Vessel with measuring head	Amber bottle, 510 ml with rubber sleeve	Amber bottle, 510 ml with rubber sleeve	Bottle 500 ml / 1,0 l vessel / 2,5 l vessel; with adapter	1000 ml vessel / 250 ml vessel with adapter	Amber bottle, 510 ml with rubber sleeve	1000 ml vessel / 250 ml vessel
Number	6 / 12	6 / 12	6 / 6 / 6	6 / 12	6 / 12	6 / 12
Measuring heads	OxiTop®	OxiTop®-C	OxiTop®-C	OxiTop®-C	OxiTop®-C	OxiTop®-C/B
Stirrer	IS 6/IS 12	IS 6/IS 12	-	IS 6-Var/IS 12	IS 6/IS 12	IS 6-Var/IS 12
Controller	-	OC 100	OC 110	OC 110	OC 110	OC 110
Software + Cable	-	-	●	●	●	●
CO₂ absorbent	●	●	●	●	●	●
Nitrification inhibitor	●	●	-	●	●	●
Overflow measuring flask	164/432 ml	164/432 ml	-	-	-	-
Stirrer bars	6/12	6/12	-	6/12	6/12	6/12
Stirrer bar remover	●	●	-	●	●	●
Blocks of chart paper	●	●	-	-	-	-

1 year guaranty for defects of quality on all sensor heads and OxiTop® controller.

Model	Description	Order No.
Benchtop Meters for BOD/Respiration		
inoLab® Oxi 7310	Professional dissolved oxygen meter, menu controlled, for measurements / documentation according GLP/AQA. For AC and battery operation. Meter with universal power supply, stand and operation manual, software and USB cable.	1BA300
inoLab® Oxi 7310P	Professional dissolved oxygen meter, menu controlled, for measurements / documentation according GLP/AQA, with integrated thermal printer. Meter with universal power supply, stand and operation manual, software and USB cable.	1BA300P
inoLab® Oxi 7310 SET 1	Professional dissolved oxygen meter, menu controlled, for measurements / documentation according GLP/AQA. Set including galvanic D.O. sensor. Meter with universal power supply, stand and operation manual, galvanical D.O. sensor CellOx® 325, abrasive foil, electrolyte, cleaning solution, replacement caps, CD-ROM incl. Software, USB cable.	1BA301
inoLab® Oxi 7310 SET 4	Professional dissolved oxygen meter, menu controlled, for measurements / documentation according GLP/AQA. Set including galvanic D.O. sensor. Meter with universal power supply, stand and operation manual, self stirring galvanic D.O. sensor StirrOx® G, abrasive foil, electrolyte, cleaning solution, replacement caps, CD-ROM incl. Software, USB cable.	1BA304
BOD Sensors and Accessories		
StirrOx® G	Self-stirring oxygen sensor for determination in Karlsruhe bottles and Winkler bottles with OxiCal®-ST calibration and storage vessel, 3 exchange membrane heads, cleaning solution, electrolyte and abrasive foil.	201425
KF 12	Karlsruhe bottles, incl. 60 mm ground stoppers suitable for BOD determination. Minimum order 10 bottles.	205700
TS 19	Funnel set for BOD determination in NS 19 Winkler bottles.	205710
FD 19/KA	Fixing cover for Karlsruher bottle KF 12.	205711
FR 19	Fixing ring, recommended for measurements in Karlsruhe bottles for CellOx® 325 or FDO® 925	205712
RZ 300	Attachment stirrer for constant approach flow in combination with a magnetic stirrer, e.g. Oxi-Stirrer 300. For CellOx® 325, FDO® 925.	203824
OxiTop® Self Check		
OxiTop® IS 6	BOD instrument for self-check with 6 measuring units, universal power supply 100 to 240 VAC, 50/60 Hz; accessories: see table „Composition of complete packages“.	208210
OxiTop® IS 12	BOD instrument for self-check with 12 measuring units, universal power supply 100 to 240 VAC, 50/60 Hz; accessories: see table „Composition of complete packages“	208211
OxiTop® IS 12-6	BOD instrument for self-check with 6 measuring units, may be extended to 12, 1 stirring platform IS 12, universal power supply 100 to 240 VAC, 50/60 Hz; accessories: see table „Composition of complete packages“	208212
OxiTop® Control for Self Check		
OxiTop®-C IS 6	BOD instrument extension set for self-check measurement with OxiTop®-C, stirring platform IS 6 for 6 measuring units, universal power supply 100 to 240 VAC, 50/60 Hz; accessories: including 6 sample bottles, 6 OxiTop®-C measuring heads, 6 rubber sleeves and 6 magnetic stirrers. For PC evaluation and documentation: AK-540/B (902 842) and Achat OC (download from wtw.com) required.	208130
OxiTop®-C IS 12	BOD instrument extension set for self-check measurement with OxiTop®-C, stirring platform IS 12 for 12 measuring units, universal power supply 100 to 240 VAC, 50/60 Hz; accessories: including 12 sample bottles, 12 OxiTop®-C measuring head, 12 rubber sleeves and 12 magnetic stirrers. For PC evaluation and documentation: AK-540/B (902 842) and Achat OC (download from wtw.com) required.	208133
OxiTop® Control 6	BOD instrument for self-check, with controller OC 100, 6 measuring units with IR interface, universal power supply 100 to 240 VAC, 50/60 Hz; accessories: see table „Composition of complete packages“. For PC evaluation and documentation interface cable AK 540/B (902 842) and the PC communication program Achat OC (download from wtw.com) is required.	208201
OxiTop® Control 12	BOD instrument for self-check, with controller OC 100, 12 measuring units with IR interface, universal power supply 100 to 240 VAC, 50/60 Hz; accessories: see table „Composition of complete packages“. For PC evaluation and documentation interface cable AK 540/B (902 842) and the PC communication program Achat OC (download from wtw.com) is required.	208204
OxiTop® Accessories		
OxiTop® GN	OxiTop® measuring head (green), with LED display and 2 operating keys to display the momentary value (M) and the stored daily value (S).	208800
OxiTop® GB	OxiTop® measuring head (yellow), with LED display and 2 operating keys to display the momentary value (M) and the stored daily value (S).	208810
OxiTop®-6	6 OxiTop® measuring heads (3 yellow, 3 green), with LED display and 2 operating keys to display momentary value (M) and stored daily value (S).	208812
OxiTop®-10	10 OxiTop® measuring heads (5 yellow, 5 green), with LED display and 2 operating keys to display momentary value (M) and stored daily value (S).	208813
OxiTop®-2	2 OxiTop® measuring heads (1 yellow, 1 green), with LED display and 2 operating keys to display momentary value (M) and stored daily value (S).	208814
OxiTop® SET-6	SET for 6 measuring units, complete with 6 OxiTop® measuring heads (3 yellow, 3 green), including 6 sample bottles PF600, 6 rubber sleeves GK 600 and 6 magnetic stirrers RST 600.	208817

Model	Description	Order No.
OxiTop® SET-10	SET for 10 measuring units, complete with 10 OxiTop® measuring heads (5 yellow, 5 green), including 10 sample bottles PF600, 10 rubber sleeves. GK 600 and 10 magnetic stirrers RST 600.	208818
OxiTop® SET-2	SET for 2 measuring units, complete with 2 OxiTop® measuring heads (yellow, green), including 2 sample bottles PF600, 2 rubber sleeves GK 600 and 2 magnetic stirrers RST 600.	208819
OxiTop®-C Accessories		
OxiTop® OC 110	OxiTop® Controller OC110 for the control of BOD and special applications of OxiTop® Control measuring systems.	208207
OxiTop® OC 100	OxiTop® Controller OC100 for the control of routine and standard OxiTop®-C BOD measuring systems.	208208
OxiTop®-C 6	6 OxiTop®-C measuring heads for use with OxiTop®-Controller OC 100/OC 110 with IR interface and data storage for 360 data sets.	208822
OxiTop®-C 2	2 OxiTop®-C measuring heads for use with OxiTop®-Controller OC 100/OC 110 with IR interface and data storage for 360 data sets.	208823
OxiTop®-C	OxiTop®-C replacement measuring head for use with OxiTop®-Controller OC 100/OC 110 with IR interface and data storage for 360 data sets.	208830
OxiTop®-C/B	OxiTop®-C/B replacement measuring head for use with OxiTop®-Controller OC 100/OC 110 with IR interface and memory for 360 data sets. Corrosion proof model for anaerobic/biogas applications.	208831
AK 540/B	Interface cable for connection of instrument with 6-pin socket to a PC via RS 232 interface.	902842
Stirring Platforms		
IS 6	Stirrer for 6 measuring units, universal power supply 100 to 240 VAC, 50/60 Hz;	208140
IS 12	Stirrer for 12 measuring units, universal power supply 100 to 240 VAC, 50/60 Hz;	208141
IS 6-Var	Stirrer for 6 sample or measuring vessels PF./MF.. or MG.. with base diameter up to 93 mm, universal power supply 100 to 240 VAC, 50/60 Hz	208145
OxiTop® for Determination of Soil Respiration		
OxiTop® Control B 6	Measuring system for determination of soil respiration (aerobic) with Controller OC 110 and 6 measuring units. Accessories: see table „Composition of complete packages“, incl. 6 bottles of 500 ml each and 6 OxiTop® AD/SK adapters.	208230
OxiTop® Control B 6M-2.5	Measuring system for soil respiration (aerob), including controller OC 110 and 6 measuring units with 2.5 l measuring vessels. Accessories: see table „Composition of complete packages“, including 6 vessels MG 2.5, each including lid adapter DV/MG, DV/MG/KL clamps, GK 600 rubber sleeve and beaker MB 50, CO2 absorbent.	208231
OxiTop® Control B 6M	Measuring system for determination of soil respiration (aerobic) with Controller OC 110 and 6 measuring units. Accessories: see table „Composition of complete packages“, incl. 6 MG vessels, 1.0 l plus 1x DV/MG adapter; DV/MG/KL clamps, GK 600 rubber sleeve and measuring beaker MB 50 (50 ml).	208232
OxiTop® for Determination of Biodegradability acc. to OECD		
OxiTop® Control S 6	BOD measuring system for aerobic measuring, with controller OC 110 and 6 measuring units (also suitable for BOD self-check), universal power supply 100 to 240 VAC, 50/60 Hz. Accessories: see table „Composition of complete packages“, incl. stirring platform IS 6.	208196
OxiTop® Control S 12	BOD measuring system for aerobic measuring, with controller OC 110 and 12 measuring units (also suitable for BOD self-check), universal power supply 100 to 240 VAC, 50/60 Hz. Accessories: see table „Composition of complete packages“, incl. stirring platform IS 12.	208198
OxiTop® Control A 6	BOD measuring system for aerobic operation with Controller OC 110 and 6 measuring units, universal power supply 100 to 240 VAC, 50/60 Hz. Accessories: see table „Composition of complete packages“, incl. 6 sample bottles, PF45/1000 (1000 ml), 6 OxiTop® AD/SK adapters and 1 stirring platform IS 6-Var.	208220
OxiTop® Control A 12	BOD measuring system for aerobic operation with Controller OC 110 and 12 measuring units, universal power supply 100 to 240 VAC, 50/60 Hz. Accessories: see table „Composition of complete packages“, incl. 12 sample bottles, PF45/250 (250 ml), 12 OxiTop® AD/SK adapters and 1 stirring platform IS 12.	208222
OxiTop® for Biogas Determination/Microbiology		
OxiTop® Control AN 6	BOD measuring system for anaerobic/aerobic operation with 6 measuring units and controller OC 110, universal power supply 100 to 240 VAC, 50/60 Hz. Accessories: see table „Composition of complete packages“, incl. 6 MF45/1000 bottles (1000 ml) with 2 nozzles each and septum seal, 6 OxiTop® AD/SK adapters and 1 stirring platform IS 6-Var.	208225
OxiTop® Control AN 12	BOD measuring system for anaerobic/aerobic operation with 12 measuring units and controller OC 110, universal power supply 100 to 240 VAC, 50/60 Hz. Accessories: see table „Composition of complete packages“, incl. 12 MF45/250 bottles (250 ml) with 2 nozzles each and septum seal, 12 OxiTop® AD/SK adapters and 1 stirring platform IS 12.	208227
Accessories/Spare Parts Respirometry		
OxiTop® AD/SK	Adapter for OxiTop® / OxiTop®-C measuring heads for all sample and measuring bottles models PF45/..and MF/45, suitable for autoclave (incl. OxiTop® AD adapter, OxiTop® SK screwable adapter, gasket DI 45 for adapter, screwing set VS 45 for adapter, 2x GK 600 rubber sleeves).	209016

Model	Description	Order No.
OxiTop® AD	Adapter for OxiTop® / OxiTop®-C measuring heads for all sample and measuring bottles PF45/.. und MF45/.., suitable for autoclave (121°C incl. gasket DI 45 for adapter).	209017
OxiTop® SK	Screwable adapter for OxiTop® AD for CO2 absorption, suitable for autoclave (121°C).	209018
MG 1,0	Measuring vessel 1000 ml for OxiTop®-C. Accessories: 1x DV/MG adapter with rack and gasket, 2x rubber sleeves GK 600, 4x DV/MG/KL clamps and 1x MB 50 measuring beaker (50 ml).	209019
DV/MG	Cover adapter for measuring vessels MG 1.0 and MG 1.5 complete with holder and seal DV/MG/DI.	209022
MG 2.5	Measuring vessel for OxiTop® C with 2.5 l volume, accessories 1x V/MG lid adapter with rack and seal, 2x GK 600 rubber sleeve, 4x DV/MG/KL clamps and beaker MB 50 (50 ml).	209023
PF45/250	Sample bottle, contents: 250 ml; Minimum order 3 pieces (packing unit), price per piece.	209102
PF45/500	Sample bottle, contents: 500 ml; Minimum order 3 pieces (packing unit), price per piece.	209103
PF45/1000	Sample bottle, contents: 1000 ml; Minimum order 3 pieces (packing unit), price per piece.	209104
MF45/250	Measuring bottle, contents: 250 ml with 2 nozzles incl. 2x VS 25 screwing sets for nozzle, 1x GK 600 rubber sleeve, 2x SEP 25 Septum for nozzle 2x STH 25 support for nozzle.	209106
MF45/500	Measuring bottle, contents: 500 ml with 2 nozzles incl. 2x VS 25 screwing sets for nozzle, 1x GK 600 rubber sleeve, 2x SEP 25 Septum for nozzles, 2x STH 25 support sleeves for nozzle.	209107
MF45/1000	Measuring bottle, contents: 1000 ml with 2 nozzles incl. 2x VS 25 screwing sets, 2x SEP 25 Septum for nozzles, 2x STH 25 support sleeves for nozzle.	209108
MF45/250/E	Spare measuring bottle, contents 250 ml.	209110
MF45/500/E	Spare measuring bottle, contents 500 ml.	209111
MF45/1000/E	Spare measuring bottle, cont. 1000 ml.	209112
NKI 500	Soda lime as CO2 absorbant, with indicator, 500 g.	209142
VS 45	Screw connection for adapter OxiTop® AD/SK /OxiTop® AD; minimum order 3 pieces (packing unit), price per piece.	209500
DI 45	Seal for OxiTop® AD/SK / OxiTop® AD adapter suitable for autoclave (121°C); minimum order 5 pieces (packing unit), price per piece.	209501
VS 25	Screwable connection for nozzle of measuring vessels MF45/..., suitable for autoclave, minimum order 5 pieces (packing unit), price per piece.	209502
SEP 25	Septum for nozzle of measuring vessels MF45/..., suitable for autoclave (121°C), minimum order 5 pieces (packing unit), price per piece.	209503
STH 25	Supporting sleeve for nozzle of measuring vessels MF45/..., suitable for autoclave (121°C), minimum order 5 pieces (packing unit), price per piece.	209504
MG 1,0 E	Replacement measuring vessel 1000 ml, minimum order 6 pcs, price per piece.	209510
MG 2.5 E	Replacement vessel MG 2.5, minimum order 4 units, price per unit.	209512
DV/MG/KL	Clip for measuring vessel MG 1.0, minimum order 20 pcs, price per piece.	209520
DV/MG/DI	Seal for measuring vessel MG 1.0 and MG 2.5, minimum order 5 pcs, price per piece.	209521
MB 50	Beaker, 50 ml	108064
BOD Thermostat Boxes		
OxiTop® Box	BOD OxiTop® thermostat box, for max. 12 OxiTop® units/20 Karlsruhe bottles for IS/6 / IS/12 stirrer, 230 VAC, 50 Hz.	208432
OxiTop® Box (115 VAC)	BOD OxiTop® thermostat box, for max. 12 OxiTop® units/20 Karlsruhe bottles for IS/6 / IS/12 stirrer, 115 VAC, 60 Hz.	208433
Thermostat Cabinets		
TS 606/2-i	Incubator cabinet for 2 BOD OxiTop® systems (12 standard bottles each), 230 VAC, 50 Hz.	208380
TS 606-G/2-i	Incubator cabinet for 2 BOD OxiTop® systems (12 standard bottles each), with insulating glass front door, 230 VAC, 50 Hz.	208381
TS 606/4-i	Incubator cabinet for 4 BOD OxiTop® systems (12 standard bottles each), 230 VAC, 50 Hz.	208383
TS 606-G/4-i	Incubator cabinet for 4 BOD OxiTop® systems (12 standard bottles each), with insulating glass front door, 230 VAC, 50 Hz.	208384
TS 1006-i	Incubator cabinet for 4 BOD OxiTop® systems, special applications with large compartment height for 1.5 l flasks/bottles with nozzle, 230 VAC, 50 Hz.	208385
AK IS6/TS 606/2i	Replacement Y-cable for operating stirring platforms with TS 606/2-i respectively TS 606-G/2-i effective from December 2013.	208386
Additional Accessories BOD		
ST-OxiTop®	Storage rack for 6 OxiTop® or 6 OxiTop®-C measuring heads.	209010
Mark-6	Set of marker rings (6 pcs) and identification shields (1-12) for identification of BOD bottles for OxiTop® systems.	209013
Dia/600	5 blocks of chart paper BOD.	209020
MK 22/600	Overflow measuring flask, contents 22.7 ml	209030

Model	Description	Order No.
MK 43/600	Overflow measuring flask, contents 43.5 ml	209040
MK 97/600	Overflow measuring flask, contents 97.0 ml	209050
MK 164/600	Overflow measuring flask, contents 164 ml	209060
MK 250/600	Overflow measuring flask, contents 250 ml	209070
MK 365/600	Overflow measuring flask, contents 365 ml	209080
MK 432/600	Overflow measuring flask, contents 432 ml	209090
PF 600	Sample bottle, amber, contents 510 ml, minimum order 3 pcs, price per piece.	209100
RST 600	Stirrer bar, minimum order 3 pcs, price per piece.	209120
REF 600	Stirrer bar remover.	209130
NHP 600	Sodium hydroxide pellets, 2 bottles of 50 g each.	209140
GK 600 L	Rubber sleeve L for OxiTop® systems usable with PF 600 and MG 1,0 with DV/MG adapter.	209172
NTH 600	Nitrification inhibitor, light protected bottle with content 25 ml. Concentration 5 g/l allylthiourea	209331
OxiTop® PM	System check of OxiTop® systems with 10 calibration tablets for checking measuring units (long term test of leakage testing and negative pressure).	209333
OxiTop® PT	Check unit for negative pressure and leakage testing for all OxiTop® measuring heads.	209334



WTW Product Families ... Optical

Photometers

catalog page 106

photoLab® 7100 VIS / 7600 UV-VIS
photoLab® S6 / S12
pHotoFlex® Series



- Photometrical Tests + Testing Equipment
- Application Methods + Reagent-free Tests
- OptRF Methods

Turbidity Meters

catalog page 138

Turb® 430 / 355 / 550 / 555

- NTU
- FNU
- FAU



General Technical Data Optical Instruments

	photoLab® Series			Thermo-reactor	Turb®	
	S6	S12	7100 VIS 7600 UV-VIS		CR 2200 CR 3200 CR 4200	550/550IR
Cuvette Size (mm)	16	16, 10, 20, 50	16, 10, 20, 50	16	28	28
Self Check	●	●	●	●	●	●
Drain	●	●	●	-	-	-
Display	LCD	LCD	Graphic/backlit	LCD	LCD	LCD
Keypad	Silicone	Silicone	Foil with Prompts	Foil with Prompts	Foil with Prompts	Foil with Prompts
Language Selection	●	●	●	●	-	-
Memory: Data Sets	500	1000	5000/40 MB	-	●	●
Methods/ User Defined Methods	130/-	150/50	250/1000	5;-/5;8/5,8	-	-
Real Time Clock	●	●	●	●	●	●
GLP Support	●	●	●	●	●	●
AQA	●	●	●	-/●/●	●	●
Identification No.	●	●	●	-	-	-
Calibration Protocol	●	●	●	●	●	●
Calibration Interval	●	●	●	-	●	●
Password Protection	●	●	●	-	-	●
Interface	RS 232	RS 232	2 USB 1 Ethernet	RS 232	RS 232	RS 232
PC Connection	●	●	●	●	●	●
PC Software (optional)	-	●	●	-	-	-
Alarm Function	-	-	●	●	-	-
Method Update via Internet	●	●	●/USB	-	-	-
Dimensions mm (in.) (H x W x D)	140x270 x260 (5.51x10.63 x10.24)	140x270 x260 (5.51x10.63 x10.24)	404x197 x314 (15.91x7.76 x12.36)	185x256 x315 (7.28x10.08 x12.40)	100x252 x290 (3.34x9.92 x11.42)	100x252 x290 (3.34x9.92 x11.42)
Weight kg (lb.)	2.3 (5.07)	2.3 (5.07)	4.5 (9.92)	3/4/4 (6.61/8.82/8.82)	1 (2.20)	1 (2.20)
Universal Power Supply	●	●	●	Switchable	●	●
Rechargeable Batteries	optional	optional	Yes/12 V	-	-	-
Certificates	CE	CE	CE	CE/ ETLus/cETL	CE/UL/CUL	CE/UL/CUL
Guaranty for defects of quality	2 Years	2 Years	2 Years	2 Years	2 Years	2 Years

	pHotoFlex® Series			Turb®	
	pHotoFlex® STD	pHotoFlex® pH	pHotoFlex® Turb	Turb® 430 IR/T	Turb® 355T/IR
Cuvette Size (mm)	16, 28	16, 28	16, 28	28	25
Self Check	●	●	●	●	●
Waterproof Housing	IP 67	IP 67	IP 67	IP 67	-
Display	Graphic/backlit	Graphic/backlit	Graphic/backlit	Graphic/backlit	LCD
Temperature Display	-	●	●	-	-
pH/Turbidity	-/-	●/-	●/●	-/●	-/●
Keypad/ Acoustic Prompts	Silicone/●	Silicone/●	Silicone/●	Silicone/●	Foil with Prompts
Language Selection	●	●	●	●	-
Memory: Data Sets	100	1000	1000	1000	-
Real Time Clock	●	●	●	●	-
GLP Support	●	●	●	●	-
Identification No.	●	●	●	●	-
Calibration Protocol	-	●	●	●	-
Calibration Interval	-	●	●	●	-
Interface	RS 232	RS 232	RS 232	RS 232	-
PC Connection	●	●	●	●	-
LabStation for Lab Use incl. Rech. Batt.	optional	optional	optional	optional	-
PC Software (optional)	●	●	●	●	-
Alarm Function	●	●	●	●	-
Clock/Timer	●/●	●/●	●/●	●/-	-
Method Update via Internet	●	●	●	●	-
Firmware Update via Internet	●	●	●	●	-
Dimensions mm (in.) (H x W x D)	117x86 x236 (4.61x3.39 x9.29)	117x86 x236 (4.61x3.39 x9.29)	117x86 x236 (4.61x3.39 x9.29)	117x86 x236 (4.61x3.39 x9.29)	48x70 x165 (1.89x2.76 x6.50)
Weight kg (lb.)	0.6 (1.32)	0.6 (1.32)	0.6 (1.32)	0.6 (1.32)	0.420 (0.93)
Battery Operated	●	●	●	●	●
Rechargeable Batteries	-	optional	optional	optional	-
Certificates	CE/ ETLus/cETL	CE/ ETLus/cETL	CE/ ETLus/cETL	CE/ ETLus/cETL	CE
Sets	-	●	●	●	●
Guaranty for defects of quality	2 Years	2 Years	2 Years	2 Years	2 Years

Photometers

Application Photometers							
Application range	Portable Photometers			Filter		Spectral	
	pHotoFlex®			photoLab®			
	STD	pH	Turb	S6	S12	7100 UV	7600 UV-VIS
Application areas	Environmental monitoring, water analysis, beverage industry	Environmental monitoring, water treatment, beverage industry, wine industry, process control, multi-parameter applications for photometry, pH and turbidity.		Routine measurements in wastewater and drinking water, optional field use	Routine measurements in wastewater and drinking water, comprehensive laboratory testes, optional field use	Spectral and special analysis in industry, education and science and analysis of routine measurements with standard parameters in wastewater and drinking water, as well as environmental analysis and on-site use via optional adapter cable and car battery.	
Wavelengths	6 wavelengths: 436, 517, 557, 594, 610, 690 nm			6 wavelengths: 340, 445, 525, 550, 605, 690 nm	12 wavelengths: 340, 410, 445, 500, 525, 550, 565, 605, 620, 665, 690, 820 nm	320 nm - 1100 nm (VIS), freely definable	190 nm - 1100 nm (UV-VIS), freely definable
Optical system	LED with filters			Filter/Reference beam		Monochromator/Reference Beam	
Special functions	–	pH measurement	pH measurement, turbidity (IR 860 nm)	–	Kinetics	–	OptRF - optical reagent-free measurement of COD, NO ₃ , NO ₂
	Optional: LabStation with PC-software LSdata, rechargeable batteries, PC-software LSdata (stand-alone)					Spectra, kinetics, multi-wavelength measurements, graphical data evaluation, environmental parameters with routine and special tasks with AQA support, PC-software photoLab® color + Data spectral for color measurement and data management	
Data sets	100	1000					
User-defined methods	50	100		No	50	1000, 20 profiles	
Cuvettes	Round: 16 mm (height: 91 - 104 mm), 28 mm			Round 16 mm	Round and rectangular 10, 20, 50 mm		

Model	Description	Order No.
Laboratory Photometer		
photoLab® S6	Filter photometer photoLab® S6 with 6 wavelengths, reference beam technology, 16 mm round cells, automatic barcode recognition, universal power supply	250013D
photoLab® S6-A	Filter photometer photoLab® S6, rechargeable Battery version, with 6 wavelengths, reference beam technology, 16 mm round cells, automatic barcode recognition, universal power supply	250022D
photoLab® S12	Filter photometer photoLab® S12 with 12 wavelengths, reference beam technology for 16 mm round cells and 10, 20, 50 mm rectangular cells, barcode and automatic cell recognition for all cell sizes, 50 user-defined programs, kinetics, universal power supply.	250024D
photoLab® S12-A	Filter photometer photoLab® S12 with 12 wavelengths, rechargeable battery version, reference beam technology for 16 mm round cells and 10, 20, 50 mm rectangular cells, barcode and automatic cell recognition for all cell sizes, 50 user-defined programs, kinetics, universal power supply	250026D
photoLab® 7100 VIS	Spectrophotometer (VIS) for spectral and routine analysis in the range of 320 - 1100 nm (reference beam) from water to wine and science. AQA-Support, complex programming options for user-defined programs, multiwavelength methods, kinetics and spectra, 2 USB interfaces, universal power supply with car adapter option for onsite measurements. More than 230 programs for test kits (16 mm round cells and 10, 20, 50 mm rectangular cuvettes) with barcode- and automatic cell recognition for all cuvette sizes as well as approx. 50 reagent free application programs. Optional: PC-Software photoLab color® for color measurement + Data spectral (data management).	250203
photoLab® 7600 UV-VIS	Spectrophotometer (UV/VIS) reference beam for spectral and routine analysis in the range of 190 - 1100 nm from water to wine and science. With optical reagent-free measurement OptRF of COD, Nitrite and Nitrate, AQA-Support, complex programming options for user-defined programs, multiwavelength methods, kinetics and spectra, USB + Ethernet interfaces, universal power supply with car adapter option for onsite measurements. More than 250 programs for test kits (16 mm round cells and 10, 20, 50 mm rectangular cuvettes) with barcode- und automatic cell recognition for all cuvette sizes as well as approx. 50 reagent free application programs. Optional: PC-Software photoLab color® for color measurement + Data spectral (data management)	250204

Model	Description	Order No.
photoLab® color + Data spectral	photoLab® color + photoLab® Data spectral PC-software package; replaces former photoLab Data spectral (order number 902761). CIE based color measurement (LAB, Luv...), Hazen (Pt-Co), Yellowness, Gardner etc. for photoLab® 7000 series together with GLP-compliant data management and export into LIMS.	902763
Laboratory Photometers - Accessories		
KK/S6-12	Case for photoLab® S6/photoLab® S12 with foam insert, not equipped, measure WxHxD: 540 x 430 x 200 mm	250040
LM spectral 6100	Exchange lamp module for photoLab® 6100 VIS / spectroFlex 6100.	250211
FC spectral 6/7	Field case for photoLab® 6000 & 7000 with foam insert, not equipped, meas. WxHxD 280x460x580 mm.	250212
PL6-10 SIC	Holder for 10 mm cuvettes	250213
PL6-Brew	Brewery application package according to MEBAK (EBC/DIN) for photoLab® 6000 & 7000 Series	250214
LM spectral 7100	Spare lamp modul for photoLab® 7100 VIS	250215
LP Spektral	Spare lamp for photoLab® Spektral.	250534
LP 6/12	Spare lamp for photoLab® S6/S12.	250536
Portable Photometers		
pHotoFlex® pH	Portable LED multi-parameter filter photometer/colorimeter with approx. 200 programs and 100 user-defined programs, 1000 data sets and full electro-chemical pH functions with optional Lab support via LabStation, single instrument; optional: rechargeable batteries (251 300) and LabStation with rech. batteries and software LSdata Flex/430 (251 301), PC-software LSdata Flex/430 (Stand-alone 902762), pH electrodes see catalog.	251100
pHotoFlex® STD	LED filter photometer with 6 wavelength, 50 user-defined methods, 100 data sets, optional lab use and data management via LabStation including LSdata Flex/430 software (251 301), PC-Software LSdata Flex/430 Stand-alone (902762).	251105
pHotoFlex® Turb	Portable LED multi-parameter filter photometer with full electro-chemical pH functions and integrated IR turbidity measurement acc. DIN/ISO with approx. 200 programs and 100 user-defined programs, 100 data sets, optional Lab support via LabStation, single instrument with calibration standard kit ; optional: rechargeable batteries (251 300) or LabStation with rechargeable batteries and LSdata Flex/430 software (251 301), pH electrodes see catalog	251110
pHotoFlex® pH/SET	Portable LED filter photometer with integrated pH function in a field case with table insert for instrument, stand and cuvettes; pH electrode SenTix® 41 and Pipette KK/VAR5000 with tips, adjustable, 0.5 - 5 ml. Accessories: empty cuvettes 16+28 mm, cleaning tissues, stand, buffer solutions pH 4.01 + 7.00, beaker, screw driver, PC-software LSdata Flex/430, PC cable AK 540 B, instructions	251200
pHotoFlex® STD/SET	Portable LED filter photometer with 6 wavelengths, 50 user-defined methods and 100 data sets, in a field case with table insert and accessories. Accessories: 2 syringes 2 and 10 ml each, empty vials 16+28 mm, cleaning tissues, screw driver, PC-software LSdata Flex/430, PC cable AK 540 B, instructions.	251205
pHotoFlex® Turb/SET	Portable LED filter photometer with integrated IR turbidity and pH measurement in a field case with table insert to hold instrument, stand and cuvettes; pH electrode SenTix® 41 and Pipette KK/VAR5000 with tips, adjustable, 0.5 - 5 ml. Accessories: empty cuvettes 16+28 mm, calibration kit for turbidity, cleaning tissues, stand, buffer solutions pH 4.01 + 7.00, beaker, screw driver, PC-software LSdata Flex/430, PC cable AK 540 B, instructions	251210
LSdata Flex/430	GLP compliant PC software for data management and -transfer for photoFlex® and Turb 430 series (stand alone).	902762
Portable Photometers - Accessories		
RB Flex/430	Rechargeable battery with universal plug for pHotoFlex® pH/ photoFlex® Turb and Turb® 430 IR/T.	251300
LS Flex/430	LabStation for easy lab use with software package LSdata Flex/430 for GLP-compliant data handling, null modem cable, rechargeable batteries, universal plug including loading function, RS232 Interface. Suitable for all pHotoFlex® and Turb® 430 models; use of bar code reader possible.	251301
LK28-Set	12 empty cuvette for pHotoFlex® Series and Turb® 430 IR/T, 28x60 mm.	251302
FC pHotoFlex®/Turb® 430	Field case with table insert to hold instrument, stand and cuvettes for easy field handling. Additional space to hold accessories and pipette.	251304
Kal.Kit Turb® 430 IR	Calibration standard kit for Turb® 430 IR and photoFlex® Turb: 0.02-10-1000 NTU.	600560
Thermoreactors		
CR 2200	Thermoreactor for COD and thermal digestions for up to 12 reaction cuvettes, with 4 reactors temperatures, 8 fixed programs, 115/230 V, regional plug.	1P21-
CR 3200	Thermoreactor for COD and thermal digestions, up to 24 cells with one program setting, 8 fixed / 8 user defined programs with free temperature setting up to 170°C, 230/115V, regional plug. Optional accessories: external temperature sensor TFK CR for AQA - temperature monitoring (250 100).	1P22-
CR 4200	Thermoreactor for COD and thermal digestions, 2 x 12 cells optional with 2 different program settings, 8 fixed / 8 user defined programs with free temperature setting up to 170°C, 230/115V, regional plugs. Optional accessories: external temperature sensor TFK CR for AQA - temperature monitoring (250 100).	1P23-
TFK CR	External temperature sensor for AQA temperature monitoring for CR 3200 and CR 4200 thermoreactors.	250100

Model	Description	Order No.
AK CR/P	Printer connection cable for CR 2200, CR 3200 and CR 4200 thermoreactors	250101
AK CR/PC	PC connection cable for CR 2200, CR 3200 and CR 4200 thermoreactors.	250102
Crack-SET 10 14687	Crack set 10 for thermal digestion of heavy metals, sufficient for 100 digestions, requires empty 16 mm round cells (250 621)	250496
Crack-SET 20 14963	Crack set 20 for Nitrate (14563, 14542 and 14773) for 90 determinations of total nitrogen in sample materials containing at most 15 mg/l N, requires empty 16 mm round cells (250 621)	250497
Crack-SET 10-C 14688	25 cuvettes with digestion reagents for thermal digestion of heavy metals in wastewater analysis.	252033
Accessories Photometry		
ETP/VAR 1000	Electronic transfer pipette variable 100-1000 µl, single channel, with certificate, accumulator and power plug 230V/50 Hz (continental Europe)	250543
ETP/VAR 5000	Electronic transfer pipette variable 500-5000 µl, single channel, with certificate, accumulator and power plug 230V/50 Hz (continental Europe)	250544
KHP/Var 1000	Variable piston pipette 100 - 1000 µl (setting adjustable in 1 µl steps).	250545
KHP/Var 5000	Variable piston pipette 0.5 - 5 ml with (setting adjustable in 10 µl steps).	250546
PSP/Var 5	200 precision disposable pipette tips (colorless) for piston pipettes KHP/ETP 5000 (500 - 5000 µl) and KHP 2 (2 ml).	250567
SPB	500 precision tips for pipette (blue) for models KHP 02, 05, 1 and KHP/ETP VAR 1000.	250570
KS 2-12 Acryl	Cuvette holder, acrylic, 2x12 round cells.	250579
REK 20	2 rectangular cuvettes (pathlength 20 mm).	250600
REK 20 Quarz	1 rectangular cuvette quartz, layer thickness 20 mm.	250601
REK 10	2 rectangular cuvettes (pathlength 10 mm).	250605
REK 10 Quarz	1 rectangular cuvette quartz, layer thickness 10 mm.	250606
REC 10 PMMA	Single use cell PMMA 10 mm, 100 pcs	250607
REK 50	1 rectangular cuvette (pathlength 50 mm).	250614
REK 50 Quarz	1 rectangular cuvette quartz, layer thickness 50 mm.	250615
REC 50/2	Half micro cell, optical glass (special), 50 mm, 1 pc.	250616
RK 14/25	25 round cuvettes, empty (16 mm diameter).	250621
AOX 00677	AOX Sample Preparation Set	252024
AOX 00678	AOX Accumulation Set	252025
BSB 00688	Nutrient salt for 12x1L dilution water	252029
BSB 14663 SRF	Reaction bottles BOD (Vol. 50 ml, Ø = 4 cm, H = 9 cm)	252032
TOC 73500	Alu screw caps for TOC cuvette test; delivery: 6 pcs.	252038
As-Accessories 73501	Absorption tube for arsenic test, model 01747	252066

Reagents from A - Z

The Right Test for Every Application

A wide choice of tests is available for routine analysis in different applications. Depending on the optical system and the wavelength employed, photometer and test set make up a matched system with different specific advantages.

For use with portable photometers, test sets need to be straightforward. The low consumption LED optics allows the use of easy-to-use and cost-effective test sets, e.g. powder tests. In the laboratory, instruments with barcode and utmost optical sensitivity suggest the use of high-precision tests with barcode reader, certificate and quality assurance support.

WTW continues to expand the reagent offering. Not only are new tests developed, but the compatibility of tests with different instruments is continuously being developed. Due to the different photometer optics, one test may yield different measuring ranges in different instruments; LED photometers may have smaller measuring ranges for the same test.

Reagents for Routine Tasks

- Convenient and cost effective
- Fast and reliable
- Assured quality by AQA/IQC



Taking measurements correctly

In reviewing lot certificates, one recognizes the most important factor: Choosing the matching measuring range is critical. Each test kit is characterized by its limits of chemical procedure. At

the limits of the measuring range, this has the biggest impact on the results. Therefore, it may be worth repeating the measurement using a test set with a better suited measuring range.

Test Types Overview			
Identification: ● = cell test ■ = reagent test TC = cell test TP = powder test TR = reagent test			
Type	Round cell test	Reagents test	Powder test
Certificate	With certificate (●) for optimum precision Without certificate (TC) for very good precision	With certificate (■) for optimum precision Without certificate (TR), precise	Without certificate (TP), precise
Test identification	Barcode (●) and/or method selection	Barcode and/or method selection	Method selection, barcode optional (external)
Advantages:	Reaction cuvette with barcode or method selection, 16 mm: Sample adding, inserting, measuring and reading at minimum work, QA support for assured results	Wide measuring range, using 10, 20 and 50 mm rectangular cuvettes for determination of trace concentrations. QA support for assured results (■) Without barcode (TR)	Compact, straightforward procedure; minimal equipment required
Application area:	Laboratory, infrequent work or very large sample throughput	Laboratory, low concentrations, cost-effective routine work with large sample throughput (■) Portable measurements, screening and monitoring tasks (TR)	Portable measurements, screening and monitoring tasks

Reagents from A - A

photoLab®		Measuring Range photoLab® 6000/7000 Series	Measuring Range photoLab® S6/S12	Cuvette (mm) round (16)/ rectangular	CC	SW	S6	S12	Spektral
Acid Capacity up to pH 4.3									
● / ■ 01758		K_{S4.3} 0.40 - 8.00 mmol/l 20 - 400 mg/l CaCO₃	K_{S4.3} 0.40 - 8.00 mmol/l 20 - 400 mg/l CaCO₃	round	-	-	●	●	●

Aluminium Al

● 00594		0.02 - 0.50 mg/l Al	0.02 - 0.50 mg/l Al	round	-	✓	-	●	●
■ 14825		0.020 - 1.20 mg/l Al	0.020 - 1.20 mg/l Al	10, 20, 50	✓	✓	-	●	●
TP Al-1 TP		-	-	-	-	-	-	-	-

Ammonia NH₃ (subject to pH value and temperature)

● 14544		0.09 - 3.00 mg/l NH₃ (pH 8.5 / 25 °C) 0.5 - 16.0 mg/l NH₄-N	-	10, 20, 50	✓	✓	-	-	-
● 14752/1		0.002 - 0.56 mg/l NH₃ (pH 8.5 / 25 °C) 0.010 - 3.00 mg/l NH₄-N	-	10, 20, 50	✓	✓	-	-	-
● 14752/2		0.002 - 0.56 mg/l NH₃ (pH 8.5 / 25 °C) 0.010 - 3.00 mg/l NH₄-N	-	10, 20, 50	✓	✓	-	-	-
TP NH ₄ -1 TP		-	-	20	-	✓	-	-	-
TC NH ₄ -2 TC (LR)		-	-	16	-	✓	-	-	-
TC NH ₄ -3 TC (HR)		-	-	16	-	✓	-	-	-

Ammonium NH₄

● 14739		0.010 - 2.000 mg/l NH₄-N 0.01 - 2.58 mg/l NH₄⁺	0.010 - 2.000 mg/l NH₄-N 0.01 - 2.58 mg/l NH₄⁺	round	✓	-	●	●	●
● A6/25		0.20 - 8.00 mg/l NH₄-N 0.26 - 10.30 mg/l NH₄⁺	0.20 - 8.00 mg/l NH₄-N 0.26 - 10.30 mg/l NH₄⁺	round	✓	✓	●	●	●
● 14544		0.5 - 16.0 mg/l NH₄-N 0.6 - 20.6 mg/l NH₄⁺	0.5 - 16.0 mg/l NH₄-N 0.6 - 20.6 mg/l NH₄⁺	round	✓	✓	●	●	●
● 14559		4.0 - 80.0 mg/l NH₄-N 5.2 - 103.0 mg/l NH₄	4.0 - 80.0 mg/l NH₄-N 5.2 - 103.0 mg/l NH₄	round	✓	✓	●	●	●
■ 14752/1		0.010 - 3.00 mg/l NH₄-N 0.013 - 3.86 mg/l NH₄	0.010 - 3.00 mg/l NH₄-N 0.013 - 3.86 mg/l NH₄	10, 20, 50	✓	✓	-	●	●
■ 14752/2		0.010 - 3.00 mg/l NH₄-N 0.013 - 3.86 mg/l NH₄⁺	0.010 - 3.00 mg/l NH₄-N 0.013 - 3.86 mg/l NH₄⁺	10, 20, 50	✓	✓	-	●	●
■ 00683		2.0 - 150 mg/l NH₄-N 2.6 - 193 mg/l NH₄	2.0 - 150 mg/l NH₄-N 2.6 - 193 mg/l NH₄	10	✓	✓	-	●	●
TP NH ₄ -1 TP		0.01 - 0.50 mg/l NH₄-N 0.013 - 0.64 mg/l NH₄⁺	-	20	-	✓	-	-	-
TC NH ₄ -2 TC (LR)		0.02 - 2.50 mg/l NH₄-N 0.03 - 3.20 mg/l NH₄⁺	-	16	-	✓	-	-	-
TC NH ₄ -3 TC (HR)		0.4 - 50.0 mg/l NH₄-N 0.5 - 64.4 mg/l NH₄⁺	-	16	-	✓	-	-	-

photoLab®

● = Cell tests with barcode;
■ = Reagent tests with barcode;TC = Cuvette Test;
TP = Powder Pillows;

TR = Reagent Test;

CC = CombiCheck;
SW = Sea Water;

ml* = Sample volume (photoLab®);

pHotoFlex®

Ordering Information

Measuring Range pHotoFlex®

Cuvette (Ø mm)
round

Model

ml*

Number of tests

Order No.

K_{S4,3} 0.40 - 8.00 mmol/l 20 - 400 mg/l CaCO₃	16
---	----

● / ■ 01758	1	120	252087
-------------	---	-----	--------

Reaction: pH-indicator by reacting protonatable water substances
Applications: Ground and surface water, drinking water, aquarium water, industrial water, boiler water, wastewater

Note: Pipette volumes of 0.5, 1, 4 ml are required, Reagents for 120 determinations in 4 supplied empty round cells with barcode, empty cells required

-	
0.05 - 0.40 mg/l Al	28
0.002 - 0.250 mg/l Al	28

● 00594	6	25	252068
■ 14825	5	300	250425
TP AI-1 TP	20	100	251400

Reaction: Chromazurol S, analog EN ISO 10566 E30, US Standard Methods 3500-AI D, Model AI-1 TP: Eriochromcyanin R analog US Standard Method 3500-AL D, ISO 10566 E30

Applications: Ground-, surface-, sea-, wastewater, drinking water, seepage water, process water

0.09 - 3.00 mg/l NH₃ (pH 8.5 / 25 °C) 0.5 - 16.0 mg/l NH₄-N	16
0.005 - 0.270 mg/l NH₃ (pH 8.5 / 25 °C) 0.02 - 1.50 mg/l NH₄-N	16, 28
0.005 - 0.270 mg/l NH₃ (pH 8.5 / 25 °C) 0.02 - 1.50 mg/l NH₄-N	16, 28
0.002 - 0.092 mg/l NH₃ (pH 8.5 / 25 °C) 0.01 - 0.50 mg/l NH₄-N	28
0.005 - 0.447 mg/l NH₃ (pH 8.5 / 25 °C) 0.02 - 2.50 mg/l NH₄-N	16
0.07 - 9.37 mg/l NH₃ (pH 8.5 / 25 °C) 0.4 - 50.0 mg/l NH₄-N	16

● 14544	0.5	25	250329
● 14752/1	5	500	250426
● 14752/2	5	250	252081
TP NH ₄ -1 TP	10	200	251408
TC NH ₄ -2 TC (LR)	2	50	251997
TC NH ₄ -3 TC (HR)	0.1	50	251998

Note: The determination of ammonia is a combination method: measurement range is depending on temperature and pH-value of the sample

-	
0.20 - 8.00 mg/l NH₄-N 0.26 - 10.30 mg/l NH₄⁺	16
0.5 - 16.0 mg/l NH₄-N 0.6 - 20.6 mg/l NH₄	16
-	
0.02 - 1.50 mg/l NH₄-N 0.03 - 1.93 mg/l NH₄	16, 28
0.02 - 1.50 mg/l NH₄-N 0.03 - 1.93 mg/l NH₄⁺	16, 28
-	
0.01 - 0.50 mg/l NH₄-N 0.013 - 0.64 mg/l NH₄⁺	28
0.02 - 2.50 mg/l NH₄-N 0.03 - 3.20 mg/l NH₄⁺	16
0.4 - 50.0 mg/l NH₄-N 0.5 - 64.4 mg/l NH₄⁺	16

● 14739	5	25	250495
● A6/25	1	25	252072
● 14544	0.5	25	250329
● 14559	0.1	25	250424
■ 14752/1	5	500	250426
■ 14752/2	5	250	252081
■ 00683	0.1, 0.2	100	252027
TP NH ₄ -1 TP	10	200	251408
TC NH ₄ -2 TC (LR)	2	50	251997
TC NH ₄ -3 TC (HR)	0.1	50	251998

Reaction: Indophenol blue (Berthelot reaction) analog to DIN 38 406 E5/ISO 7150. Models NH₄-x: Salyticate

Applications: Wastewater, drinking water, sea water

pHotoFlex®

● = Cell tests with barcode;
■ = Reagent tests with barcode;

TC = Cuvette Test;
TP = Powder Pillows;

TR = Reagent Test; CC = CombiCheck;
SW = Sea Water;

ml* = Sample volume (photoLab®);

Reagents from A - C

photoLab®		Measuring Range photoLab® 6000/7000 Series	Measuring Range photoLab® S6/S12	Cuvette (mm) round (16)/ rectangular	CC	SW	S6	S12	Spektral
Antimony: Please ask for application leaflets									
AOX									
● 00675	0.05 - 2.50 mg/l AOX	0.05 - 2.50 mg/l AOX	round	—	—	●	●	●	
Arsenic									
■ 01747	0.001 - 0.100 mg/l As	0.001 - 0.100 mg/l As	10, 20	—	—	—	●	●	
also required: AS absorption tube									
Ascorbic acid: Please ask for application leaflets									
BOD Biochemical oxygen demand O₂									
● 00687	0.5 - 3000 mg/l BOD	0.5 - 3000 mg/l BOD	round	—	✓	●	●	●	
Boron B									
● 00826	0.05 - 2.00 mg/l B	0.05 - 2.00 mg/l B	round	—	✓	—	●	●	
■ 14839	0.050 - 0.800 mg/l B	0.050 - 0.800 mg/l B	10	—	—	—	●	●	
Bromine Br₂									
■ 00605	0.020 - 10.00 mg/l Br ₂	0.020 - 10.00 mg/l Br ₂	10, 20, 50	—	—	—	●	●	
Cadmium Cd									
● 14834	0.025 - 1.000 mg/l Cd	0.025 - 1.000 mg/l Cd	round	✓	—	●	●	●	
■ 01745	0.002 - 0.500 mg/l Cd	0.002 - 0.500 mg/l Cd	10, 20, 50	—	—	—	●	●	
Calcium Ca									
■ 14815	1.0 - 160 mg/l Ca	1.0 - 160 mg/l Ca	10, 20	—	✓	—	●	●	
● 00858	10 - 250 mg/l Ca	10 - 250 mg/l Ca	round	—	—	●	●	●	

photoLab®

● = Cell tests with barcode;

TC = Cuvette Test;

TR = Reagent Test;

CC = CombiCheck;

ml* = Sample volume (photoLab®);

■ = Reagent tests with barcode;

TP = Powder Pillows;

SW = Sea Water;

pHotoFlex®

Ordering Information

Measuring Range pHotoFlex®

Cuvette
(Ø mm)
round

Model

ml*

Number
of tests

Order No.

-	
---	--

● 00675		25	252023
---------	--	----	--------

Reaction: Iron(III) thiocyanat
Applications: Treated sewage, treated electroplating wastewater, treated wastewater from chlorine bleaches
Note: AOX 00677 Sample preparation set (252 024) and AOX 00678 Enrichment set (252 025) are also required; AOX Standard (252 026) available

0.002 - 0.100 mg/l As	
-----------------------	--

■ 01747	350	30	252063
---------	-----	----	--------

AS absorption tube			252066
--------------------	--	--	--------

Note: additionally needed: sulfuric acid 95-97 % p.A. and Zinc, gran. p.A.
Reaction: Hydrogen arsenic / silver diethyldithiocarbamate analog EN 26595 and EPA 206.4, US Standard Methods 3500-As
Applications: Groundwater, surface water, drinking water, wastewater

-	
---	--

● 00687	-	50	252028
---------	---	----	--------

Reaction: Modified Winkler method
Applications: Communal and industrial wastewater
Note: The measuring range applies to a corresponding dilution. BOD 00688 Nutrient salt (252 029) and BOD SRF 14663 Oxygen reaction bottles (252 032) are also required. BSB standard 00718 (252 030) available. The cuvette test contains 3 round cuvettes with barcode labels. The sample is prepared and measured in the round cuvette. After the measurement the round cuvette is emptied and cleaned for the following measurement.

-	
-	

● 00826	4	25	252041
---------	---	----	--------

■ 14839	5	60	250427
---------	---	----	--------

Reaction: Modell 14839: Rosocyanine; Modell 00826: Azomethine, analog to DIN 38 406 D17
Applications: Wastewater, drinking water
see also ISE

-	
---	--

■ 00605	10	200	252014
---------	----	-----	--------

Reaction: DPD
Applications: Drinking water, wastewater, disinfectants
Note: Chlorine dioxide, chlorine, ozone and iodine also react

0.025 - 1.000 mg/l Cd	16
-----------------------	----

0.010 - 0.500 mg/l Cd	28
-----------------------	----

● 14834	5	25	250314
---------	---	----	--------

■ 01745	10	55	252051
---------	----	----	--------

Reaction: Cation derivative
Applications: Wastewater, seepage water, process water
Note: For the determination of total cadmium crack set 10 and empty round cuvettes or Crack-Set 10-C are required (100 °C or 120 °C, 1 h)
see also ISE

5 - 160 mg/l Ca	16, 28
-----------------	--------

-	
---	--

■ 14815	0.1	100	250428
---------	-----	-----	--------

● 00858	1	25	252047
---------	---	----	--------

Reaction: Model 14815: glyoxal-bis-hydroxyanil, Model 00858: Phthalein purple
Applications: Wastewater, drinking water
Note: Sensitive measuring range: 1.0 - 15.0 mg/l Ca
see also ISE

pHotoFlex®

● = Cell tests with barcode;
■ = Reagent tests with barcode;

TC = Cuvette Test;
TP = Powder Pillows;

TR = Reagent Test;

CC = CombiCheck;
SW = Sea Water;

ml* = Sample volume (photoLab®);

Reagents from C - C

photoLab®		Measuring Range photoLab® 6000/7000 Series	Measuring Range photoLab® S6/S12	Cuvette (mm) round (16)/ rectangular	CC	SW	S6	S12	Spektral
Carbon dioxide CO₂ (subject to pH value and temperature)									
● / ■	01758	14 - 275 mg/l CO ₂ (pH 6.5 / 18.6 °C) K _{S4.3} 0.40 - 8.00 mmol/l	-	round	-	-	-	-	-

Chlorine Cl₂

●	00595	0.03 - 6.00 Cl ₂ , free	0.03 - 6.00 Cl ₂	round	-	-	●	●	●
●	00597	0.03 - 6.00 Cl ₂ , free + total	0.03 - 6.00 Cl ₂	round	-	-	●	●	●
■	00598/1	0.010 - 6.00 Cl ₂ , free	0.010 - 6.00 Cl ₂	10, 20, 50	-	-	-	●	●
■	00598/2	0.010 - 6.00 Cl ₂ , free	0.010 - 6.00 Cl ₂	10, 20, 50	-	-	-	●	●
■	00599	0.010 - 6.00 Cl ₂ , free + total	0.010 - 6.00 Cl ₂	10, 20, 50	-	-	-	●	●
■	00602/1	0.010 - 6.00 Cl ₂ , total	0.010 - 6.00 Cl ₂	10, 20, 50	-	-	-	●	●
■	00602/2	0.010 - 6.00 Cl ₂ , total	0.010 - 6.00 Cl ₂	10, 20, 50	-	-	-	●	●
TP	Cl ₂ -1 TP	0.02 - 2.00 mg/l Cl ₂ , free	-	20	-	✓	-	-	-
TP	Cl ₂ -2 TP	0.5 - 5.0 mg/l Cl ₂ , free	-	20	-	✓	-	-	-
TP	Cl ₂ -3 TP	0.02 - 2.0 mg/l Cl ₂ , total	-	20	-	✓	-	-	-
TP	Cl ₂ -4 TP	0.5 - 5.0 mg/l Cl ₂ , total	-	20	-	✓	-	-	-

Chlorine Liquid test kit (free and total chlorine) Cl₂

● / ■		0.010 - 6.00 Cl ₂	0.010 - 6.00 Cl ₂	round, 50	-	-	●	●	●
	00086 Chlorine reagent Cl ₂ -1								
	00087 Chlorine reagent Cl ₂ -2								
	00088 Chlorine reagent Cl ₂ -3								
	00089 Accessories Cl ₂ (25 round cells etc.)								

Chloride Cl

●	14730	5 - 125 mg/l Cl	5 - 125 mg/l Cl	round	✓	✓	●	●	●
■	14897/1	2.5 - 250 mg/l Cl	2.5 - 250 mg/l Cl	10	✓	✓	-	●	●
■	14897/2	2.5 - 250 mg/l Cl	2.5 - 250 mg/l Cl	10	✓	✓	-	●	●

photoLab®

● = Cell tests with barcode;
■ = Reagent tests with barcode;TC = Cuvette Test;
TP = Powder Pillows;

TR = Reagent Test;

CC = CombiCheck;
SW = Sea Water;

ml* = Sample volume (photoLab®);

pHotoFlex®

Ordering Information

Measuring Range pHotoFlex®

Cuvette
(Ø mm)
round

Model

ml*

Number
of tests

Order No.

14 - 275 mg/l CO₂
(pH 6.5 / 18.6 °C)
K_{S4.3} 0.40 - 8.00 mmol/l

16

● / ■ 01758 1 120 252087

Note: The determination of carbon dioxide is a combination method: measurement range is depending on temperature and pH-value of the sample.

0.025 - 4.50 Cl₂

16/28

0.025 - 4.50 Cl₂

16/28

-

-

-

-

-

0.02 - 2.00 mg/l Cl₂, free

28

0.5 - 5.00 mg/l Cl₂, free

28

0.02 - 2.00 mg/l Cl₂, total

28

0.5 - 5.0 mg/l Cl₂, gesamt

28

● 00595 5 200 250419

● 00597 5 200* 250420

■ 00598/1 10 1200 252010

■ 00598/2 10 200 252011

■ 00599 10 200* 252012

■ 00602/1 10 200 252013

■ 00602/2 10 1200 252055

TP Cl₂-1 TP 10 100 251401

TP Cl₂-2 TP 25 100 251402

TP Cl₂-3 TP 10 100 251414

TP Cl₂-4 TP 10 +15
H₂O 100 251415

Reaction: DPD analog DIN 38408 G4, EN ISO 7393

Applications: Disinfectants, wastewater, drinking water

Note: Cuvette test sets 00595 and 00597 contain 3 round cuvettes with bar-code labels. Preparation and measurement of the sample occurs in the round cuvette. When the measurement has been made the round cuvettes are emptied and cleaned for the next measurement. 00595, 00598/1 and 00598/2 are for the determination of free chlorine. 00597, 00599 are for the determination of free chlorine and total chlorine. 00602 is a test set for total chlorine determination.

200* = 100 Cl₂ free + 100 Cl₂ total

0.025 - 4.50 Cl₂

16/28

● / ■ 10

00086 Chlorine reagent Cl₂-1 200 252077

00087 Chlorine reagent Cl₂-2 400 252078

00088 Chlorine reagent Cl₂-3 600 252079

00089 Accessories Cl₂ 25 252080
(round cells etc.)

Reaction: DPD analog DIN 38408 G4, EN ISO 7393

Applications: Disinfectants, swimming pools, wastewater, drinking water

Note: To perform the Chlorine liquid test the following models are needed, depending on the application:

Free Chlorine: 00086, 00087, 00089.

Total Chlorine: 00086, 00087, 00088, 00089

5 - 125 mg/l Cl

16

10 - 190 mg/l Cl

16

10 - 190 mg/l Cl

16

● 14730 1 25 250353

■ 14897/1 1, 5 100 250491

■ 14897/2 1, 5 175 252082

Reaction: Iron(III)-thiocyanate analog DIN 38405 D31

Applications: Wastewater, drinking water, ground water, mineral water / after dilution see also ISE

pHotoFlex®

● = Cell tests with barcode;
■ = Reagent tests with barcode;

TC = Cuvette Test;
TP = Powder Pillows;

TR = Reagent Test; CC = CombiCheck;
SW = Sea Water;

ml* = Sample volume (photoLab®);

Reagents from C - C

		photoLab®						
Model	Measuring Range photoLab® 6000/7000 Series	Measuring Range photoLab® S6/S12	Cuvette (mm) round (16)/ rectangular	CC	SW	S6	S12	Spektral
Chlorine dioxide ClO₂								
■ 00608	0.020-10.00 mg/l ClO ₂	0.020-10.00 mg/l ClO ₂	10, 20, 50	—	—	—	●	●

Chromate (chromium VI and total chromium) Cr

● 14552	0.05-2.00 mg/l Cr	0.05-2.00 mg/l Cr	round	—	✓*	●	●	●
■ 14758	0.01-3.00 mg/l Cr	0.01-3.00 mg/l Cr	10, 20, 50	—	✓	—	●	●

Chromium plating bath CrO₃: See reagent-free tests**COD Chemical oxygen demand O₂**

● 14560	4.0-40.0 mg/l COD (148 °C, 2 h)	4.0-40.0 mg/l COD (148 °C, 2 h)	round	✓	—	●	●	●
● 01796	5.0-80.0 mg/l COD (148 °C, 2 h)	5.0-80.0 mg/l COD (148 °C, 2 h)	round	✓	—	●	●	●
● C3/25	10-150 mg/l COD (148 °C, 2 h)	10-150 mg/l COD (148 °C, 2 h)	round	✓	—	●	●	●
● 14895	15-300 mg/l COD (148 °C, 2 h)	15-300 mg/l COD (148 °C, 2 h)	round	✓	—	●	●	●
● 14690	50-500 mg/l COD (148 °C, 2 h)	50-500 mg/l COD (148 °C, 2 h)	round	✓	—	●	●	●
● C4/25	25-1500 mg/l COD (148 °C, 2 h)	25-1500 mg/l COD (148 °C, 2 h)	round	✓	—	●	●	●
● 14691	300-3500 mg/l COD (148 °C, 2 h)	300-3500 mg/l COD (148 °C, 2 h)	round	✓	—	●	●	●
● 14555	500-10000 mg/l COD (148 °C, 2 h)	500-10000 mg/l COD (148 °C, 2 h)	round	✓	—	●	●	●
● 01797	5000-90000 mg/l COD (148 °C, 2 h)	5000-90000 mg/l COD (148 °C, 2 h)	round	—	—	●	●	●
TC	COD1 TC (LR)	3-150 mg/l COD (148 °C, 2 h)	round	—	—	—	—	—
TC	COD2 TC (MR)	20-1500 mg/l COD (148 °C, 2 h)	round	—	—	—	—	—
TC	COD3 TC (HR)	200-15000 mg/l COD (148 °C, 2 h)	round	—	—	—	—	—

COD Chemical oxygen demand (Hg-free, Chloride is measured to respectively disturbs in high concentrations)

● 09772	10-150 mg/l COD (148 °C, 2h)	10-150 mg/l COD (148 °C, 2h)	round	✓	—	●	●	●
● 09773	100-1500 mg/l COD (148 °C, 2h)	100-1500 mg/l COD (148 °C, 2h)	round	✓	—	●	●	●

Copper Cu

● 14553	0.05-8.00 mg/l Cu	0.05-8.00 mg/l Cu	round	—	✓	●	●	●
■ 14767	0.02-6.00 mg/l Cu	0.02-6.00 mg/l Cu	10, 20, 50	—	✓	—	●	●
TP	Cu-1 TP	0.04-5.00 mg/l Cu	20	—	✓	—	—	—

Copper plating bath Cu: See reagent-free tests

		photoLab®						
● = Cell tests with barcode;	TC = Cuvette Test;	TR = Reagent Test;	CC = CombiCheck;	ml* = Sample volume (photoLab®);				
■ = Reagent tests with barcode;	TP = Powder Pillows;							

<p style="font-size: 24pt; margin: 0;">pHotoFlex®</p> <p style="margin: 0;">Measuring Range pHotoFlex®</p>	<p style="font-size: 10pt; margin: 0;">Cuvette (Ø mm)</p> <p style="margin: 0;">round</p>	<h2 style="margin: 0;">Ordering Information</h2> <table border="1" style="width:100%; border-collapse: collapse; font-size: 10pt;"> <thead> <tr> <th style="width:15%;"></th> <th style="width:15%;">Model</th> <th style="width:15%;">ml*</th> <th style="width:15%;">Number of tests</th> <th style="width:40%;">Order No.</th> </tr> </thead> </table>		Model	ml*	Number of tests	Order No.
	Model	ml*	Number of tests	Order No.			

0.02-7.50 mg/l ClO₂	16, 28
---------------------------------------	--------

■	00608	10	200	252017
---	-------	----	-----	--------

Reaction: DPD, analog DIN 38408 G5
Applications: Drinking water, wastewater, disinfectants
Note: Bromine, chlorine, ozone and iodine also react

0.05-2.00 mg/l Cr	16
-	-

●	14552	10	25	250341
■	14758	5	250	250433

Reaction: Diphenylcarbazide
Applications: Wastewater, drinking water, *sea water: 14552 only chromate
Note: Model 14552: contains all digestion reagents for total chromium. Model 14758: Crack set 10 and empty round cuvettes or Crack set 10-C are required for the determination (120 °C, 1 h)

-	-
-	-
10-150 mg/l COD (148 °C, 2 h)	16
15-300 mg/l COD (148 °C, 2 h)	16
50-500 mg/l COD (148 °C, 2 h)	16
25-1500 mg/l COD (148 °C, 2 h)	16
300-3500 mg/l COD (148 °C, 2 h)	16
500-9500 mg/l COD (148 °C, 2 h)	16
5000-90000 mg/l COD (148 °C, 2 h)	16
3-150 mg/l COD (148 °C, 2 h)	16
20-1500 mg/l COD (148 °C, 2 h)	16
200-15000 mg/l COD (148 °C, 2 h)	16

●	14560	3	25	250303
●	01796	2	25	252092
●	C3/25	3	25	252070
●	14895	2	25	250359
●	14690	2	25	250304
●	C4/25	3	25	252071
●	14691	2	25	250351
●	14555	1	25	250309
●	01797	0.1	25	252093
TC	COD1 TC (LR)	2	25*	251990
TC	COD2 TC (MR)	2	25*	251991
TC	COD3 TC (HR)	0.2	25*	251992

Reaction: Chromosulfuric acid oxidation, analog to EN ISO 15705
Applications: Wastewater, production control, ground water, surface water
Storage: Store away from light!
Note: For C3/25 CombiCheck 10 can be used, for C4/25 CombiCheck 20 can be used

*) Test models COD 1-3 TC with 150 determinations on demand

10-150 mg/l COD (148 °C, 2h)	16
100-1500 mg/l COD (148 °C, 2h)	16

●	09772	2	25	250301
●	09773	2	25	250306

0.05-7.50 mg/l Cu	16
0.04-6.00 mg/l Cu	16, 28
0.04-5.00 mg/l Cu	28

●	14553	5	25	250408
■	14767	10	250	250441
TP	Cu-1 TP	10	100	251403

Reaction: Cuprizone. Model Cu-1 TP: Biquinoline
Applications: Wastewater, drinking water, ground water, foodstuffs
Note: Crack set 10 and empty round cuvettes or Crack set 10-C are required for the determination of total copper (100 °C or 120 °C, 1 h)
see also ISE

<p style="font-size: 24pt; margin: 0;">pHotoFlex®</p> <p style="margin: 0;">● = Cell tests with barcode; ■ = Reagent tests with barcode;</p>	<p style="margin: 0;">TC = Cuvette Test; TP = Powder Pillows;</p>	<p style="margin: 0;">TR = Reagent Test;</p>	<p style="margin: 0;">CC = CombiCheck; SW = Sea Water;</p>	<p style="margin: 0;">ml* = Sample volume (photoLab®);</p>
---	---	--	--	--

Reagents from C - H

		photoLab®						
Model	Measuring Range photoLab® 6000/7000 Series	Measuring Range photoLab® S6/S12	Cuvette (mm) round (16)/ rectangular	CC	SW	S6	S12	Spektral
Cyanide (free and easy liberatable cyanide) CN								
● 14561	0.010 - 0.500 mg/l CN	0.010 - 0.500 mg/l CN	round	-	-	●	●	●
■ 09701	0.002 - 0.500 mg/l CN	0.002 - 0.500 mg/l CN	10, 20, 50	-	-	-	●	●
Cyanuric acid								
■ 19253	2 - 160 mg/l Cyanuric acid	2 - 160 mg/l Cyanuric acid	20	-	-	-	●	●
DEHA/Oxygen scavenger								
■ 19251	0.020 - 0.500 mg/l DEHA	0.020 - 0.500 mg/l DEHA	20	-	-	-	●	●
TP DEHA-1 TP	0.004 - 0.450 mg/l DEHA	-	20	-	-	-	-	-
Detergents: see Surfactants: anionic, cationic, nonionic								
Fluoride F								
● 00809	0.01 - 1.80 mg/l F	0.01 - 1.80 mg/l F	round, 50	-	-	●	●	-
■ 14598/1	0.10 - 20.0 mg/l F	0.10 - 20.0 mg/l F	10	-	-	-	●	●
■ 14598/2	0.10 - 20.0 mg/l F	0.10 - 20.0 mg/l F	10	-	-	-	●	●
Formaldehyde HCHO								
● 14500	0.10 - 8.00 mg/l HCHO	0.10 - 8.00 mg/l HCHO	round	-	-	●	●	●
■ 14678	0.02 - 8.00 mg/l HCHO	0.02 - 8.00 mg/l HCHO	10, 20, 50	-	-	-	●	●
Gold Au								
■ 14821	0.5 - 12.0 mg/l Au	0.5 - 12.0 mg/l Au	10	✓	✓	-	●	●
Halogens (total): see Cl₂, Br₂, I₂, ClO₂, O₃								
Hazen: See reagent-free tests: Coloration								
Heavy metals: see lead, cadmium, chromium								
Hydrazine N₂H₄								
■ 09711	0.005 - 2.00 mg/l N ₂ H ₄	0.005 - 2.00 mg/l N ₂ H ₄	10, 20, 50	-	-	-	●	●
TR N ₂ H ₄ 1 TR	0.004 - 0.600 mg/l N ₂ H ₄	-	20	-	-	-	-	-

photoLab®

● = Cell tests with barcode;
■ = Reagent tests with barcode;TC = Cuvette Test;
TP = Powder Pillows;

TR = Reagent Test;

CC = CombiCheck;
SW = Sea Water;

ml* = Sample volume (photoLab®);

pHotoFlex®

Ordering Information

Measuring Range pHotoFlex®

Cuvette (Ø mm)
round

Model

ml*

Number of tests

Order No.

0.01 - 0.30 mg/l CN	16
-	

● 14561	5	25	250344
■ 09701	5, 10	100	250492

Reaction: Barbituric acid-pyridine carboxylic acid, analog to DIN 38 405 D13 / ISO 6703
Applications: Wastewater from electroplating and metal processing works, drinking water
see also ISE

2 - 160 mg/l Cyanuric acid	28
----------------------------	----

■ 19253	5	100	252091
---------	---	-----	--------

Reaction: Turbidimetric method with triazine derivat
Applications: Swimming pool

-	-
0.004 - 0.450 mg/l DEHA	28

■ 19251	10	200	252089
TP DEHA-1 TP	25	100	251421

Reaction: Complex of Fe(II) Ions with Triazine derivat boric acid free
Applications: Boiler Feed Water / Condensate

0.01 - 1.80 mg/l F	16
-	
-	

● 00809	5	25	252094
■ 14598/1	5 or 0.5	100	252048
■ 14598/2	5 or 0.5	250	252083

Reaction: Alizarin complex; analog EPA 340.3 and APHA 45-F-E
Applications: Wastewater, ground water, well water, mineral water
Note: photolab® S6: Measuring range 00809: 0.1 - 1.8 mg/l F
see also ISE

0.10 - 7.00 mg/l HCHO	16
-	

● 14500	2	25	250406
■ 14678	3	100	250331

Reaction: Chromotropic acid
Applications: Disinfectants, preservatives, applications for cosmetics and chipboard

0.5 - 9.0 mg/l Au	16
-------------------	----

■ 14821	2	75	250436
---------	---	----	--------

Reaction: Rhodamine B
Applications: Wastewater

-	
0.004 - 0.600 mg/l N ₂ H ₄	28

■ 09711	5	100	250493
TR N ₂ H ₄ 1 TR	10	100	251416

Reaction: 4-Dimethylaminobenzaldehyde, analog to DIN 38413 P1
Applications: Wastewater, drinking water, boiler feed water

pHotoFlex®

- = Cell tests with barcode;
- = Reagent tests with barcode;

- TC = Cuvette Test;
- TP = Powder Pillows;

- TR = Reagent Test;
- CC = CombiCheck;
- SW = Sea Water;

ml* = Sample volume (photoLab®);



Reagents from H - M

		photoLab®						
Model	Measuring Range photoLab® 6000/7000 Series	Measuring Range photoLab® S6/S12	Cuvette (mm) round (16)/ rectangular	CC	SW	S6	S12	Spektral
Hydrogen peroxide H₂O₂								
● 14731	0.20 - 20.0 mg/l H ₂ O ₂	0.20 - 20.0 mg/l H ₂ O ₂	round	–	✓	–	●	●
■ 18789	0.015 - 6.00 mg/l H ₂ O ₂	0.015 - 6.00 mg/l H ₂ O ₂	10, 20	–	–	–	●	●
Iodine I₂								
■ 00606	0.050 - 10.00 mg/l I ₂ *	0.050 - 10.00 mg/l I ₂ *	10, 20, 50	–	–	–	●	●
Iodine number: See reagent-free tests: Coloration								
Iron Fe								
● 14549	0.05 - 4.00 mg/l Fe	0.05 - 4.00 mg/l Fe	round	✓	✓	●	●	●
● 14896	1.0 - 50.0 mg/l Fe	1.0 - 50.0 mg/l Fe	round	–	–	●	●	●
■ 14761/1	0.005 - 5.00 mg/l Fe	0.005 - 5.00 mg/l Fe	10, 20, 50	✓	✓	–	●	●
■ 14761/2	0.005 - 5.00 mg/l Fe	0.005 - 5.00 mg/l Fe	10, 20, 50	✓	✓	–	●	●
■ 00796	0.010 - 5.00 mg/l Fe	0.010 - 5.00 mg/l Fe	10, 20, 50	✓	✓	–	●	●
TP Fe-1 TP	0.012 - 1.800 mg/l Fe	–	16	–	✓	–	–	–
TP Fe-2 TP	0.02 - 3.00 mg/l Fe	–	16	–	✓	–	–	–
Lead Pb								
● 14833	0.10 - 5.00 mg/l Pb	0.10 - 5.00 mg/l Pb	round	✓	–	●	●	●
■ 09717	0.010 - 5.00 mg/l Pb	0.010 - 5.00 mg/l Pb	10, 20, 50	✓	–	–	●	●
Magnesium Mg								
● 00815	5.0 - 75.0 mg/l Mg	5.0 - 75.0 mg/l Mg	round	–	✓	●	●	●
Manganese Mn								
■ 01846	0.005 - 2.00 mg/l Mn	0.005 - 2.00 mg/l Mn	10, 20, 50	–	–	–	●	●
■ 14770/1	0.01 - 10.0 mg/l Mn	0.01 - 10.0 mg/l Mn	10, 20, 50	✓	✓	–	●	●
■ 14770/2	0.01 - 10.0 mg/l Mn	0.01 - 10.0 mg/l Mn	10, 20, 50	✓	✓	–	●	●
● 00816	0.10 - 5.00 mg/l Mn	0.10 - 5.00 mg/l Mn	round	✓	–	●	●	●
TP Mn-1 TP	0.2 - 20.0 mg/l Mn	–	20	–	–	–	–	–
TP Mn-2 TP	0.007 - 0.700 mg/l Mn	–	20	–	–	–	–	–

photoLab®

● = Cell tests with barcode;
■ = Reagent tests with barcode;TC = Cuvette Test;
TP = Powder Pillows;

TR = Reagent Test;

CC = CombiCheck;
SW = Sea Water;

ml* = Sample volume (photoLab®);

pHotoFlex®

Ordering Information

Measuring Range pHotoFlex®	Cuvette (Ø mm)
	round

Model	ml*	Number of tests	Order No.
-------	-----	-----------------	-----------

-	
-	

● 14731	10	25	250402
■ 18789	8	100	252067

Reaction: Determination for model 18789 via copper reaction with phenanthroline derivate.
Applications: Wastewater, drinking water, disinfectants, detergents
Note: Range of sensitivity for model 18789: 0.015 - 3.000 mg/l H₂O₂

-	
---	--

■ 00606	10	200	252015
---------	----	-----	--------

Reaction: DPD
Applications: Drinking water, wastewater, disinfectants
Note: Bromine, chlorine, ozone and chlorine dioxide also react

0.05 - 3.00 mg/l Fe	16
1.0 - 50.0 mg/l Fe	16
0.05 - 3.00 mg/l Fe	16, 28
0.05 - 3.00 mg/l Fe	16, 28
-	
0.012 - 1.800 mg/l Fe	28
0.02 - 3.00 mg/l Fe	28

● 14549	5	25	250349
● 14896	1	25	250361
■ 14761/1	5	1000	250435
■ 14761/2	5	250	250439
■ 00796	8	150	252042
TP Fe-1 TP	10	100	251404
TP Fe-2 TP	10	100	251405

Reaction: Triazine: 14549; 14761; Fe-1 TP
Dipyridine: 14896; Fe-2 TP
Phenanthroline: 00796: Analogue to US-Standard Methods 3500-Fe D and DIN 38406 E1
Differentiation of Fe(II) and Fe(III) with 14896; 00796.
Applications: Wastewater, drinking water, foodstuffs
Note: For the determination of total iron crack set 10 and empty round cuvettes or Crack-Set 10-C are required (120 °C, 1 h)

-	
0.01 - 5.00 mg/l Pb	16, 28

● 14833	5	25	250313
■ 09717	8	50	252034

Reaction: Pyridylazoresorcinol PAR
Applications: Wastewater, drinking water
Note: Falls under the hazardous substances regulations as it contains cyanide. Contains no digestion reagents. For the determination of total lead crack set 10 and empty round or Crack-Set 10-C are required (100 °C or 120 °C, 1 h) see also ISE

5.0 - 75.0 mg/l Mg	16
--------------------	----

● 00815	1	25	252043
---------	---	----	--------

Reaction: with Phthalein purple
Applications: Drinking water, surface water

-	
0.02 - 9.00 mg/l Mn	16, 28
0.02 - 9.00 mg/l Mn	16, 28
0.10 - 5.00 mg/l Mn	16
0.0 - 20.0 mg/l Mn	16, 28
0.007 - 0.700 mg/l Mn	28

■ 01846	8	250	252097
■ 14770/1	5	500	250442
■ 14770/2	5	250	252084
● 00816	7	25	252035
TP Mn-1 TP	10	100	251406
TP Mn-2 TP	10	100	251417

Reaction: Formaldoxime, analog to DIN 38 406 E2. Model Mn-1 TP: Periodat-Oxidation analog US Standard Method 3500-Mn D
Applications: Wastewater, drinking water, groundwater and surface water, drinking water and mineral water, spring water and well water, nutrient solutions for fertilization, soils after appropriate sample pretreatment. This test is not suited for seawater.

pHotoFlex®

● = Cell tests with barcode;
■ = Reagent tests with barcode;

TC = Cuvette Test;
TP = Powder Pillows;

TR = Reagent Test; CC = CombiCheck;

ml* = Sample volume (photoLab®);
SW = Sea Water;

Reagents from M - N

		photoLab®						
Model	Measuring Range photoLab® 6000/7000 Series	Measuring Range photoLab® S6/S12	Cuvette (mm) round (16)/ rectangular	CC	SW	S6	S12	Spektral
Molybdenum Mo								
● 00860	0.02 - 1.00 mg/l Mo	0.02 - 1.00 mg/l Mo	round	-	-	-	●	●
■ 19252	0.5 - 45.0 mg/l Mo	0.5 - 45.0 mg/l Mo	20	-	-	-	●	●
TP Mo-1 TP	0.3 - 35.0 mg/l Mo	-	20	-	-	-	-	-
TP Mo-2 TP	0.3 - 40.0 mg/l Mo	-	20	-	-	-	-	-
Monochloramine								
■ 01632	0.050 - 10.00 mg/l Cl ₂	0.050 - 10.00 mg/l Cl ₂	10, 20, 50	-	-	-	●	●
Nickel Ni								
● 14554	0.10 - 6.00 mg/l Ni	0.10 - 6.00 mg/l Ni	round	✓	-	●	●	●
■ 14785	0.02 - 5.00 mg/l Ni	0.02 - 5.00 mg/l Ni	10, 20, 50	✓	-	-	●	●
Nickel plating bath: See reagent-free tests								
Nitrogen (total): see Total Nitrogen N_{Total}								
Nitrate NO₃								
● 14556	0.10 - 3.00 mg/l NO ₃ -N 0.4 - 13.3 mg/l NO ₃	0.10 - 3.00 mg/l NO ₃ -N 0.4 - 13.3 mg/l NO ₃	round	✓	✓	-	●	●
● N2/25	0.5 - 25.0 mg/l NO ₃ -N 2.2 - 110.7 mg/l NO ₃	0.5 - 25.0 mg/l NO ₃ -N 2.2 - 110.7 mg/l NO ₃	round	✓	-	●	●	●
● 14542	0.5 - 18.0 mg/l NO ₃ -N 2.2 - 79.7 mg/l NO ₃	0.5 - 18.0 mg/l NO ₃ -N 2.2 - 79.7 mg/l NO ₃	round	✓	-	●	●	●
● 14764	1.0 - 50.0 mg/l NO ₃ -N 4 - 221 mg/l NO ₃	1.0 - 50.0 mg/l NO ₃ -N 4 - 221 mg/l NO ₃	round	✓	-	●	●	●
● 00614	23 - 225 mg/l NO ₃ -N 102 - 996 mg/l NO ₃	23 - 225 mg/l NO ₃ -N 102 - 996 mg/l NO ₃	round	-	-	●	●	●
■ 14942	0.2 - 17.0 mg/l NO ₃ -N 0.9 - 75.3 mg/l NO ₃	0.2 - 17.0 mg/l NO ₃ -N 0.9 - 75.3 mg/l NO ₃	10	✓	✓	-	●	●
■ 14773	0.2 - 20.0 mg/l NO ₃ -N 0.9 - 88.5 mg/l NO ₃	0.2 - 20.0 mg/l NO ₃ -N 0.9 - 88.5 mg/l NO ₃	10, 20	✓	-	-	●	●
■ 09713/1	0.10 - 25.0 mg/l NO ₃ -N 0.40 - 110.7 mg/l NO ₃	0.1 - 25.0 mg/l NO ₃ -N 0.45 - 110.7 mg/l NO ₃	10, 20, 50	✓	-	-	●	●
■ 09713/2	0.10 - 25.0 mg/l NO ₃ -N 0.40 - 110.7 mg/l NO ₃	0.1 - 25.0 mg/l NO ₃ -N 0.45 - 110.7 mg/l NO ₃	10, 20, 50	✓	-	-	●	●
TC NO ₃ -1 TC	0.2 - 30.0 mg/l NO ₃ -N 1 - 133.0 mg/l NO ₃	-	rund	-	-	-	-	-

photoLab®

● = Cell tests with barcode;
■ = Reagent tests with barcode;TC = Cuvette Test;
TP = Powder Pillows;

TR = Reagent Test;

CC = CombiCheck;
SW = Sea Water;

ml* = Sample volume (photoLab®);

pHotoFlex®

Ordering Information

Measuring Range pHotoFlex®	Cuvette (Ø mm) round
----------------------------	----------------------

Model	ml*	Number of tests	Order No.
-------	-----	-----------------	-----------

0.02 - 1.00 mg/l Mo	16
0.5 - 45.0 mg/l Mo	28
0.3 - 35.0 mg/l Mo	28
0.3 - 40.0 mg/l Mo	28

● 00860	10	25	252040
■ 19252	10	100	252090
TP Mo-1 TP	10	100	251407
TP Mo-2 TP	25	100	251418

Reaction: Model 00860: Bromopyrogallol red; Model 19252, Model Mo-1 TP: Thioglycol acid
Applications: Nutrient solutions for fertilization, process solutions, boiler water and boiler feed water, wastewater

-	
---	--

■ 01632	10	150	252057
---------	----	-----	--------

Reaction: Thymol
Applications: Drinking water, wastewater, disinfectants

0.10 - 6.00 mg/l Ni	16
0.10 - 3.80 mg/l Ni	28

● 14554	5	25	250409
■ 14785	5	250	250443

Reaction: Dimethylglyoxime, analog to DIN 38406 E11
Applications: Wastewater, drinking water, surface water
Note: For the determination of total nickel crack set 10 and empty round or Crack-Set 10-C are required (120 °C, 1 h)

0.10 - 2.70 mg/l NO ₃ -N 0.44 - 11.95 mg/l NO ₃	16
-	
0.5 - 14.5 mg/l NO ₃ -N 2.2 - 64.2 mg/l NO ₃	16
-	
-	
0.2 - 13.0 mg/l NO ₃ -N 0.9 - 57.5 mg/l NO ₃	16
-	
-	
-	
0.2 - 30.0 mg/l NO ₃ -N 1 - 133.0 mg/l NO ₃	16

● 14556	2	25	250411
● N2/25	1	25	252073
● 14542	1.5	25	250410
● 14764	0.5	25	250347
● 00614	0.1	25	252019
■ 14942	1	50	250422
■ 14773	1.5, 3	100	250444
■ 09713/1	0.5	100	250421
■ 09713/2	0.5	250	252085
TC NO ₃ -1 TC	1	50	251993

Reaction: Model 14542 and 14773: nitrospectral; Models N2/25, 14764, 09713 and 00614: DMP analog to DIN 38405 D9/ISO 7890; Models 14556 and 14942: phenol derivative (suitable for sea water); Model NO₃-1 TC: chromotrope acid
Applications: Wastewater, drinking water, surface water; Model 00614: also for nutrient solutions for fertilization, soils
Note: Models 14773 and 09713: For the determination of total nitrogen Crack Set 20 and empty round cuvettes are required For N2/25 CombiCheck 20 can be used. see also ISE

pHotoFlex®

● = Cell tests with barcode;
■ = Reagent tests with barcode;

TC = Cuvette Test;
TP = Powder Pillows;

TR = Reagent Test;

CC = CombiCheck;
SW = Sea Water;

ml* = Sample volume (photoLab®);

Reagents from N - P

		photoLab®						
Model	Measuring Range photoLab® 6000/7000 Series	Measuring Range photoLab® S6/S12	Cuvette (mm) round (16)/ rectangular	CC	SW	S6	S12	Spektral
Nitrite NO₂								
● N5/25	0.010 - 0.700 mg/l NO ₂ -N 0.03 - 2.30 mg/l NO ₂	0.010 - 0.700 mg/l NO ₂ -N 0.03 - 2.30 mg/l NO ₂	round	-	✓	●	●	●
■ 14776/1	0.002 - 1.00 mg/l NO ₂ -N 0.007 - 3.28 mg/l NO ₂	0.005 - 1.00 mg/l NO ₂ -N 0.016 - 3.28 mg/l NO ₂	10, 20, 50	-	✓	-	●	●
■ 14776/2	0.002 - 1.00 mg/l NO ₂ -N 0.007 - 3.28 mg/l NO ₂	0.005 - 1.00 mg/l NO ₂ -N 0.016 - 3.28 mg/l NO ₂	10, 20, 50	-	✓	-	●	●
● 00609	1.0 - 90.0 mg/l NO ₂ -N 3.3 - 295.2 mg/l NO ₂	1.0 - 90.0 mg/l NO ₂ -N 3.3 - 295.2 mg/l NO ₂	round	-	-	●	●	●
TP NO ₂ -1 TP	0.002 - 0.300 mg/l NO ₂ -N 0.007 - 0.985 mg/l NO ₂	-	20	-	✓	-	-	-
TP NO ₂ -3 TP	0.002 - 0.300 mg/l NO ₂ -N 0.007 - 0.985 mg/l NO ₂	-	20	-	-	-	-	-
TC NO ₂ -2 TC	0.03 - 0.60 mg/l NO ₂ -N (LR) 0.10 - 1.97 mg/l NO ₂ (LR) 0.30 - 3.00 mg/l NO ₂ -N (HR) 0.99 - 9.85 mg/l NO ₂ (HR)	-	round	-	-	-	-	-

Organic Acids (volatile)

● 01749	50 - 3000 mg/l (100 °C, 15 min.)	50 - 3000 mg/l (100 °C, 15 min.)	round	-	-	●	●	-
● / ■ 01809	50 - 3000 mg/l (100 °C, 15 min.)	50 - 3000 mg/l (100 °C, 15 min.)	16	-	-	●	●	-

Oxygen O₂

● 14694	0.5 - 12.0 mg/l O ₂	0.5 - 12.0 mg/l O ₂	round	-	-	●	●	●
---------	--------------------------------	--------------------------------	-------	---	---	---	---	---

Ozone O₃

■ 00607/1	0.010 - 4.00 mg/l O ₃	0.010 - 4.00 mg/l O ₃	10, 20, 50	-	-	-	●	●
■ 00607/2	0.010 - 4.00 mg/l O ₃	0.010 - 4.00 mg/l O ₃	10, 20, 50	-	-	-	●	●

pH

● 01744	pH 6.4 - 8.8	pH 6.4 - 8.8	round	-	✓	●	●	●
---------	--------------	--------------	-------	---	---	---	---	---

Phenol C₆H₅OH

■ 00856	0.002 - 0.100 mg/l C ₆ H ₅ OH 0.025 - 5.00 mg/l C ₆ H ₅ OH	0.002 - 0.100 mg/l C ₆ H ₅ OH 0.025 - 5.00 mg/l C ₆ H ₅ OH	20 10, 20, 50	-	✓	-	●	●
● 14551	0.10 - 2.50 mg/l C ₆ H ₅ OH	0.10 - 2.50 mg/l C ₆ H ₅ OH	round	-	✓	-	●	●

photoLab®

● = Cell tests with barcode;
■ = Reagent tests with barcode;TC = Cuvette Test;
TP = Powder Pillows;

TR = Reagent Test;

CC = CombiCheck;
SW = Sea Water;

ml* = Sample volume (photoLab®);

pHotoFlex®

Ordering Information

Measuring Range pHotoFlex®

Cuvette (Ø mm)
round

Model

ml*

Number of tests

Order No.

0.00 - 0.50 mg/l NO ₂ -N 0.07 - 1.81 mg/l NO ₂	16
0.01 - 0.50 mg/l NO ₂ -N 0.03 - 1.64 mg/l NO ₂	16, 28
0.01 - 0.50 mg/l NO ₂ -N 0.03 - 1.64 mg/l NO ₂	16, 28
-	
0.002 - 0.300 mg/l NO ₂ -N 0.007 - 0.985 mg/l NO ₂	28
0.002 - 0.300 mg/l NO ₂ -N 0.007 - 0.985 mg/l NO ₂	28
0.03 - 0.60 mg/l NO ₂ -N (LR) 0.10 - 1.97 mg/l NO ₂ (LR) 0.30 - 3.00 mg/l NO ₂ -N (HR) 0.99 - 9.85 mg/l NO ₂ (HR)	16
	16

● N5/25	5	25	252074
■ 14776/1	5	1000	250445
■ 14776/2	5	335	250440
● 00609	8	25	252069
TP NO ₂ -1 TP	10	100	251409
TP NO ₂ -3 TP	25	100	251420
TC NO ₂ -2 TC	2	24	251994
	0.5		

Reaction: Griess Reaction analog EN 26777 LD 10 and US Standard Method 4500-NO₂-B. NO₂-1,2, 3: Diazotisation

00609: Iron reaction in acid solution with Fe(II)-ethylendiammonium sulfate

Applications: Wastewater, ground and surface water, drinking water, sea water, food and soils after corresponding sample preparation

-	
-	

● 01749	0.5	25	252096
● / ■ 01809	0.5	100	252095

Reaction: In an acidic medium volatile organic acids react via turn over into acid esters to hydroxamic acids to form red complex with iron(III) ions.

Application: Digested sludge, Activated sludge, Process water

Note: Measurement ranges calculated as acetic acid.

-	
---	--

● 14694	-	25	250403
---------	---	----	--------

Reaction: Modified Winkler method

Applications: Surface water, drinking water

0.01 - 3.50 mg/l O ₃	16, 28
0.01 - 3.50 mg/l O ₃	16, 28

■ 00607/1	10	200	252016
■ 00607/2	10	1200	252054

Reaction: DPD, analog to DIN 38 408 G3

Applications: Drinking water, wastewater, disinfectants

Note: Bromine, chlorine, chlorine dioxide and iodine also react

-	
---	--

● 01744	10	280	252050
---------	----	-----	--------

Applications: Ground water, drinking water, surface water, swimming pools

-	
0.10 - 2.50 mg/l C ₆ H ₅ OH	16

■ 00856	200	50	252058
	10	250	
● 14551	10	25	250412

Reaction: 4-Amoniantupyrin analog ISO 6439 / US Standard Methods 5530, EPA 420.1 (00856); SMBTH (14551)

Applications: Wastewater, surface water

pHotoFlex®

● = Cell tests with barcode;
■ = Reagent tests with barcode;

TC = Cuvette Test;
TP = Powder Pillows;

TR = Reagent Test;

CC = CombiCheck;
SW = Sea Water;

ml* = Sample volume (photoLab®);

Reagents from P - S

		photoLab®						
Model	Measuring Range photoLab® 6000/7000 Series	Measuring Range photoLab® S6/S12	Cuvette (mm) round (16)/ rectangular	CC	SW	S6	S12	Spektral
Phosphate PO₄/Phosphorus total								
● P6/25	0.05 - 5.00 mg/l PO ₄ -P 0.05 - 5.0 mg/l P _{Total} * 0.2 - 15.3 mg/l PO ₄	0.05 - 5.00 mg/l PO ₄ -P 0.05 - 5.0 mg/l P _{Total} * 0.2 - 15.3 mg/l PO ₄	round	✓	✓*	●	●	●
● P7/25	0.5 - 25.0 mg/l PO ₄ -P 0.5 - 25.0 mg/l P _{Total} * 1.5 - 76.7 mg/l PO ₄	0.5 - 25.0 mg/l PO ₄ -P 0.5 - 25.0 mg/l P _{Total} * 1.5 - 76.7 mg/l PO ₄	round	✓	✓*	●	●	●
● 14546	0.5 - 25.0 mg/l PO ₄ -P 1.5 - 76.7 mg/l PO ₄	0.5 - 25.0 mg/l PO ₄ -P 1.5 - 76.7 mg/l PO ₄	round	✓	✓	●	●	●
● 00616	3.0 - 100.0 mg/l PO ₄ -P 9 - 307 mg/l PO ₄	3.0 - 100.0 mg/l PO ₄ -P 9 - 307 mg/l PO ₄	round	-	✓	●	●	●
■ 14848/1	0.010 - 5.00 mg/l PO ₄ -P 0.010 - 5.00 mg/l P _{Total} 0.030 - 15.3 mg/l PO ₄	0.010 - 5.00 mg/l PO ₄ -P 0.010 - 5.00 mg/l P _{Total} 0.030 - 15.3 mg/l PO ₄	10, 20, 50	✓	✓	-	●	●
■ 14848/2	0.010 - 5.00 mg/l PO ₄ -P 0.010 - 5.00 mg/l P _{Total} 0.030 - 15.3 mg/l PO ₄	0.010 - 5.00 mg/l PO ₄ -P 0.010 - 5.00 mg/l P _{Total} 0.030 - 15.3 mg/l PO ₄	10, 20, 50	✓	✓	-	●	●
■ 14842	0.5 - 30.0 mg/l PO ₄ -P 1.5 - 92.0 mg/l PO ₄	0.5 - 30.0 mg/l PO ₄ -P 1.5 - 92.0 mg/l PO ₄	10, 20	-	✓	-	●	●
■ 00798	1.0 - 100.0 mg/l PO ₄ -P 3.0 - 307.0 mg/l PO ₄	1.0 - 100.0 mg/l PO ₄ -P 3.0 - 307.0 mg/l PO ₄	10	-	✓	-	●	●
TP PO ₄ -1 TP	0.007 - 0.800 mg/l PO ₄ -P 0.02 - 2.50 mg/l PO ₄	-	20	-	✓	-	-	-
TC PO ₄ -2 TC	0.02 - 1.63 mg/l PO ₄ -P 0.06 - 5.00 mg/l PO ₄	-	round	-	✓	-	-	-
TC PO ₄ -3 TC	0.020 - 1.141 mg/l PO ₄ -P 0.020 - 1.141 mg/l P _{Total} (digestion 120 °C) 0.06 - 3.50 mg/l PO ₄	-	round	-	✓	-	-	-
TC PO ₄ -4 TC	0.020 - 1.141 mg/l PO ₄ -P 0.020 - 1.141 mg/l P _{Total} (digestion 120 °C) 0.06 - 3.50 mg/l PO ₄	-	round	-	✓	-	-	-

Phosphorus (total): see Phosphate PO₄

Potassium K

● 14562	5.0 - 50.0 mg/l K	5.0 - 50.0 mg/l K	round	-	✓	●	●	●
● 00615	30 - 300 mg/l K	30 - 300 mg/l K	round	-	✓	●	●	●

SAC: See reagent-free tests

		photoLab®					
● = Cell tests with barcode;	TC = Cuvette Test;	TR = Reagent Test;	CC = CombiCheck;	ml* = Sample volume (photoLab®);			
■ = Reagent tests with barcode;	TP = Powder Pillows;	SW = Sea Water;					

Reagents from S - S

		photoLab®						
Model	Measuring Range photoLab® 6000/7000 Series	Measuring Range photoLab® S6/S12	Cuvette (mm) round (16)/ rectangular	CC	SW	S6	S12	Spektral
Silicate/Silicic acid Si								
■ 14794	0.005 - 5.00 mg/l Si 0.01 - 10.70 mg/l SiO ₂	0.005 - 5.00 mg/l Si 0.01 - 10.70 mg/l SiO ₂	10, 20, 50	-	✓	-	●	●
■ 00857	0.5 - 500 mg/l Si 1.1 - 1070 mg/l SiO ₂	0.5 - 500 mg/l Si 1.1 - 1070 mg/l SiO ₂	10	-	-	-	●	●
TP Si-1 TP (LR)	0.005 - 0.748 mg/l Si 0.01 - 1.60 SiO ₂	-	20	-	✓	-	-	-
TP Si-2 TP (HR)	0.5 - 46.7 mg/l Si 1 - 100 mg/l SiO ₂	-	20	-	✓	-	-	-
TP Si-3 TP (HR)	0.5 - 93 mg/l Si 1 - 200 mg/l SiO ₂	-	20	-	✓	-	-	-

Silver Ag

■ 14831	0.25 - 3.00 mg/l Ag	0.25 - 3.00 mg/l Ag	10, 20	-	-	-	●	●
---------	---------------------	---------------------	--------	---	---	---	---	---

Sodium Na

● 00885	10 - 300 mg/l Na	10 - 300 mg/l Na	round	-	-	●	●	●
---------	------------------	------------------	-------	---	---	---	---	---

Sulfate SO₄

● 14548	5 - 250 mg/l SO ₄	5 - 250 mg/l SO ₄	round	✓	✓	●	●	●
● 00617	50 - 500 mg/l SO ₄	50 - 500 mg/l SO ₄	round	✓	✓	●	●	●
● 14564	100 - 1000 mg/l SO ₄	100 - 1000 mg/l SO ₄	round	✓	✓	●	●	●
■ 14791	25 - 300 mg/l SO ₄	25 - 300 mg/l SO ₄	10	✓	-	●	●	●
TP SO ₄ -1 TP	2 - 70 mg/l SO ₄	-	20	-	✓	-	-	-
TP SO ₄ -2 TP	2 - 70 mg/l SO ₄	-	20	-	✓	-	-	-

Sulfide/Hydrogensulfide S

■ 14779	0.020 - 1.50 mg/l S	0.020 - 1.50 mg/l S	10, 20, 50	-	-	-	●	●
---------	---------------------	---------------------	------------	---	---	---	---	---

Sulfite SO₃

● 14394	0.05 - 20.0 mg/l SO ₃	0.05 - 20.0 mg/l SO ₃	round	-	-	-	●	●
■ 01746	1.0 - 60.0 mg/l SO ₃ SO ₃	1.0 - 60.0 mg/l SO ₃	10	-	-	-	●	●

Surfactants

a-Ten (anionic) ● 14697	replaced by model 02552							
a-Ten (anionic) ● 02552	0.05 - 2.00 mg/l MBAS	0.05 - 2.00 mg/l MBAS	round	-	-	-	●	●
c-Ten (cationic) ● 01764	0.05 - 1.50 mg/l CTAB	0.05 - 1.50 mg/l CTAB	round	-	-	-	●	●
n-Ten (nonionic) ● 01787	0.10 - 7.50 mg/l Triton X-100	0.10 - 7.50 mg/l Triton X-100	round	-	-	-	●	●

photoLab®

● = Cell tests with barcode;

TC = Cuvette Test;

TR = Reagent Test;

CC = CombiCheck;

ml* = Sample volume (photoLab®);

■ = Reagent tests with barcode;

TP = Powder Pillows;

SW = Sea Water;

pHotoFlex®

Ordering Information

Measuring Range pHotoFlex®

Cuvette
(Ø mm)
round

Model

ml*

Number
of tests

Order No.

0.05 - 5.00 mg/l Si 0.01 - 10.70 mg/l SiO ₂	16, 28
0.5 - 50.0 mg/l Si 1.1 - 107.0 mg/l SiO ₂	16
0.005 - 0.748 mg/l Si 0.01 - 1.60 SiO ₂	28
0.3 - 46.7 mg/l Si 0.7 - 100 mg/l SiO ₂	16, 28
0.5 - 35.1 mg/l Si 1.0 - 75 mg/l SiO ₂	28

■ 14794	5	300	250438
■ 00857	4/0.5	100	252046
TP Si-1 TP (LR)	10	100	251411
TP Si-2 TP (HR)	10	100	251412
TP Si-3 TP (HR)	25	100	251422

Reaction: Silicomolybdenum blue analog DIN 38405 D21 and US Standard Method 4500-Si D/E
Si-1 TP: Heteroblue method

Applications: Wastewater, drinking water

0.25 - 2.75 mg/l Ag	16
---------------------	----

■ 14831	10	100	250448
---------	----	-----	--------

Reaction: Eosin/phenanthroline
Applications: Wastewater from photography industry and electroplating baths, production control
Note: Total Ag with digestion at 100 °C or 120 °C, 1 h, digestion reagents are included in the test set
see also ISE

10 - 300 mg/l Na	16
------------------	----

● 00885	0.5	25	252044
---------	-----	----	--------

Applications: In nutrient solutions for fertilization

25 - 250 mg/l SO ₄	16
-	
-	
-	
0 - 70 mg/l SO ₄	28
2 - 70 mg/l SO ₄	28

● 14548	5	25	250414
● 00617	2	25	252022
● 14564	1	25	250415
■ 14791	2.5	200	250449
TP SO4-1 TP	10	100	251413
TP SO4-2 TP	25	100	251423

Reaction: Models 14548, 14564 and 00617, SO₄-1, 2 TP: barium sulfate, turbidometric, analog US Standard Method 4500-SO₄²⁻ E/IPA 375.4.; Model 14791: tannin
Applications: Ground water, building materials, soils

-	
---	--

■ 14779	5	220	250450
---------	---	-----	--------

Reaction: Dimethyl-p-phenylenediamine, analog to DIN 38405 D26/ISO 10530
Applications: Wastewater, drinking water
see also ISE

-	
-	

● 14394	3	25	250416
■ 01746	2	150	252053

Reaction: Ellman's reagent
Applications: Wastewater, boiler water, foodstuffs
Note: Range of sensitivity 0.05 - 3.00 mg/l SO₃

0.05 - 2.00 mg/l MBAS	16
-	
0.10 - 7.50 mg/l Triton X-100	16

● 14697	replaced by model 02552		
● 02552	5	25	252102
● 01764	5	25	252062
● 01787	4	25	252061

Applications: Wastewater, seepage water, surface water

pHotoFlex®

● = Cell tests with barcode;
■ = Reagent tests with barcode;

TC = Cuvette Test;
TP = Powder Pillows;

TR = Reagent Test;

CC = CombiCheck;
SW = Sea Water;

ml* = Sample volume (photoLab®);

Reagents from T - Z

		photoLab®						
Model	Measuring Range photoLab® 6000/7000 Series	Measuring Range photoLab® S6/S12	Cuvette (mm) round (16)/ rectangular	CC	SW	S6	S12	Spektral
Tin Sn								
● 14622	0.10-2.50 mg/l Sn	0.10-2.50 mg/l Sn	round	-	✓	-	●	●
TOC Total organic carbon								
● 14878	5.0-80.0 mg/l TOC	5.0-80.0 mg/l TOC	round	-	-	●	●	●
● 14879	50-800 mg/l TOC	50-800 mg/l TOC	round	-	-	●	●	●
Total Nitrogen N_{Total}								
● 14537	0.5-15.0 mg/l N _{Total} (120 °C, 1 h)	0.5-15.0 mg/l N _{Total} (120 °C, 1 h)	round	✓	-	●	●	●
● 14763	10-150 mg/l N _{Total} (120 °C, 1 h)	10-150 mg/l N _{Total} (120 °C, 1 h)	round	✓	-	●	●	●
● 00613	0.5-15.0 mg/l N _{Total} (120 °C, 1 h)	0.5-15.0 mg/l N _{Total} (120 °C, 1 h)	round	✓	-	●	●	●
TC N _{tot} 1 TC (LR)	0.5-25.0 mg/l N _{Total} (120 °C, 30 min.)	-	16	-	-	-	-	-
TC N _{tot} 2 TC (HR)	10-150 mg/l N _{Total} (120 °C, 30 min.)	-	16	-	-	-	-	-
Total phosphorus: see Phosphate PO₄								
Water hardness, RH Residual hardness								
● 14683	0.070-0.700 °d 0.50-5.00 mg/l Ca	0.070-0.700 °d 0.50-5.00 mg/l Ca	round	-	-	●	●	●
Water hardness, total hardness								
● 00961	0.7-30.1 °d, 5-215 mg/l Ca	0.7-30.1 °d, 5-215 mg/l Ca	round	-	-	●	●	●
Zinc Zn								
● 00861	0.025-1.000 mg/l Zn	0.025-1.000 mg/l Zn	round	-	-	●	●	●
● 14566	0.20-5.00 mg/l Zn	0.20-5.00 mg/l Zn	round	✓	-	●	●	●
■ 14832	0.05-2.50 mg/l Zn	0.05-2.50 mg/l Zn	10	-	-	-	●	●
Necessary reagent: 06146	zinc reagent 6	zinc reagent 6						
		photoLab®						
● = Cell tests with barcode; ■ = Reagent tests with barcode;	TC = Cuvette Test; TP = Powder Pillows;	TR = Reagent Test;	CC = CombiCheck;	SW = Sea Water;	ml* = Sample volume (photoLab®);			

pHotoFlex®

Ordering Information

Measuring Range pHotoFlex®

Cuvette (Ø mm)
round

Model

ml*

Number of tests

Order No.

-	
---	--

● 14622	5	25	250401
---------	---	----	--------

Reaction: Pyrocatechol violet
Applications: Wastewater, electroplating bath solutions

-	
-	

● 14878	3	25	252036
● 14879	3	25	252037

also required: TOC Screw Caps (252 038)
available TOC Standard Solution 1000 mg/l (250 499)

0.5 - 15.0 mg/l N _{Total} (120 °C, 1 h)	16
-	
-	
0.5 - 25.0 mg/l N _{Total} (120 °C, 30 min.)	16
10 - 150 mg/l N _{Total} (120 °C, 30 min.)	16

● 14537	10	25	250358
● 14763	1	25	250494
● 00613	10	25	252018
TC N _{tot} 1 TC (LR)	2; 2	50	251995
TC N _{tot} 2 TC (HR)	0.5; 2	50	251996

Reaction: Koroleff digestion (oxidation to nitrate, analog to DIN EN ISO 11 905):
determination with Nitrospectral (Model 14537) or DMP (Models 14763 and 00613) analog to DIN 38 405 D9 / ISO 7890/1. Models N_{tot}1 and N_{tot}2 TC:
digestion with persulfate
Applications: Wastewater, drinking water, surface water
Note: All digestion reagents are contained in the test set

-	
---	--

● 14683	4	25	250404
---------	---	----	--------

Reaction: Phthalein complexone
Applications: Check of ion-exchanger plants for the production of deionized water

0.7 - 30.1 °d, 5 - 215 mg/l Ca	16
-----------------------------------	----

● 00961	1	25	252039
---------	---	----	--------

Reaction: Phthalein complexone
Applications: Drinking water, surface water

0.025 - 1.000 mg/l Zn	16
0.20 - 5.00 mg/l Zn	16
-	

● 00861	2	25	252049
● 14566	0.5	25	250417
■ 14832	5	90	250451
06146		180	250452

Reaction: Model 14832: Cl-PAN. Models 14566, 00861: PAR
Applications: Wastewater, particularly from electroplating and metal processing industries,
seepage water, sewage sludge, soils

pHotoFlex®

● = Cell tests with barcode;
■ = Reagent tests with barcode;

TC = Cuvette Test;
TP = Powder Pillows;

TR = Reagent Test; CC = CombiCheck;

ml* = Sample volume (photoLab®);

Application Programs for photoLab® 6000/7000 Series

The application programs for photoLab® 6000/7000 Series are photometrical procedures, which usually are not based on reagent test kits. Information on auxiliary materials and reagents are described in the analytical description. Program selection takes place by entering the respective program number. Find an excerpt here: all available application programs are listed in the analysis instructions, which can be downloaded in the download section "Operating manuals" on WTW website www.wtw.com.

Parameter	Total measuring range	Method
ADMI	2.0 - 100.0	Inherent color
ADMI	10 - 500	Inherent color
Ammonia, free	(0.010 - 0.500 mg/l NH ₄ -N)	as ammonium (with test 14752)
Ammonia, free	(0.03 - 1.50 mg/l NH ₄ -N)	as ammonium (with test 14752)
Ammonia, free	(0.05 - 3.00 mg/l NH ₄ -N)	as ammonium (with test 14752)
Ammonia, free	(0.6 - 20.6 mg/l NH ₄ -N)	as ammonium (with test 14544)
Antimony in water and wastewater	0.10 - 8.00 mg/l Sb	Brilliant green
Bromate in water and drinking water	0.003 - 0.120 mg/l BrO ₃	3,3'-Dimethylnaphthidine
Carbon dioxide	(0.4 - 8.00 mmol/l OH)	Indicator reaction (with test 01758)
Chlorophyll-a (DIN), 10 mm	result in µg/l Chl-a	Inherent color
Chlorophyll-a (DIN), 20 mm	result in µg/l Chl-a	Inherent color
Chlorophyll-a (DIN), 50 mm	result in µg/l Chl-a	Inherent color
Chlorophyll-a (ASTM), 10 mm	result in mg/m ³ Chl-a	Inherent color
Chlorophyll-a (ASTM), 20 mm	result in mg/m ³ Chl-a	Inherent color
Chlorophyll-a (ASTM), 50 mm	result in mg/m ³ Chl-a	Inherent color
Chlorophyll-a,-b,-c (ASTM), 10 mm	result in mg/m ³ Chl-a,-b,-c	Inherent color
Chlorophyll-a,-b,-c (ASTM), 50 mm	result in mg/m ³ Chl-a, -b, -c	Inherent color
Chromium Baths	4.0 - 400 g/l CrO ₃	Inherent color
Color (FB436)	0.10 - 250 m ⁻¹ DFZ	Measurement at 436 nm
Color (FB525)	0.10 - 250 m ⁻¹ DFZ	Measurement at 525 nm
Color (FB620)	0.10 - 250 m ⁻¹ DFZ	Measurement at 620 nm
Color Hazen (Hz340)*	0.2 - 500 Hz	Platinum-cobalt-Standard Method, 340 nm
Color Hazen (Hz445)*	1 - 1000 Hz	Platinum-cobalt-Standard Method, 445 nm
Color Hazen (Hz455)*	1 - 1000 Hz	Platinum-cobalt-Standard Method, 455 nm
Color Hazen (Hz620)*	1 - 1000 Hz	Platinum-cobalt-Standard Method, 465 nm
Copper Baths	2.0 - 80.0 g/l Cu	Inherent color
Iodine color number (IodFa)	0.010 - 3.00 IFZ	Measurement at 340 nm
Iodine color number (IodFa)	0.2 - 50.0 IFZ	Measurement at 445 nm
Mercury in water and wastewater	0.025 - 1.000 mg/l Hg	Michler's ketone
Nickel Baths	2.0 - 120 g/l Ni	Inherent color
Nitrate	0.0 - 7.0 mg/l NO ₃ -N	direct measurement in the UV range
Palladium in water and wastewater	0.05 - 1.25 mg/l Pd	Thio-Michler's ketone
Platinum in water and wastewater	0.10 - 1.25 mg/l Pt	o-Phenylendiamine
Spectral Absorption Coefficient α(254)	0.5 - 250 m ⁻¹	Measurement at 254 nm
Spectral Attenuation Coefficient μ(254)*	0.5 - 250 m ⁻¹	Measurement at 254 nm
Spectral Absorption Coefficient α(436)	0.5 - 250 m ⁻¹	Measurement at 436 nm
Suspended Solids	25 - 750 mg/l Susp. solids	Measurement at 820 nm
Turbidity (T550)	1 - 100 FAU	Measurement at 550 nm

* Turbidity correction possible

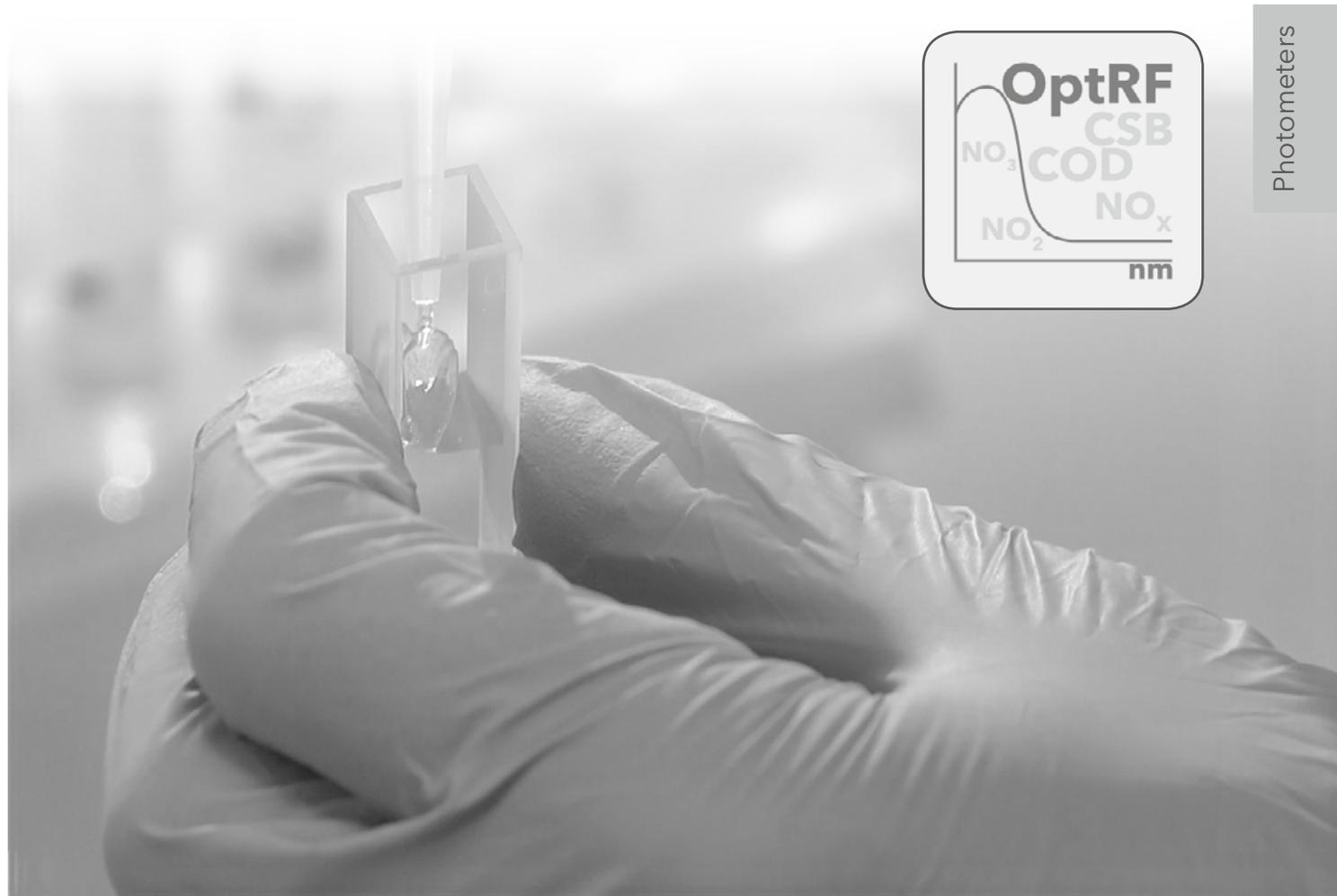
Optical reagent-free measurement of COD, NO₃ and NO₂ with OptRF methods

The OptRF measurement of an aqueous sample is based on a direct, spectral absorbance measurement in the UV range 200 ... 390 nm without using any reagents. The measured spectrum is evaluated over the entire wavelength range. The concentration value is calculated by means of complex algorithms or evaluation models, which are stored in the photometer as OptRF methods. The available OptRF methods are specific for the relevant measured parameter as well as for the application and measurement location.

The OptRF methods currently available were developed and optimized for the application range and comprise the following measured parameters and measuring ranges referring to measurements in standard solutions with user calibration for Nitrite:

Parameters for Sewage		
OptRF measuring method	Parameter	Measuring range referring to measurements in standard solutions
3001 COD _t _H_Outlet_10	CSB _{total}	2 - 75 mg/L
3002 COD _s _H_Outlet_10	CSB _{dissolved}	2 - 75 mg/L
3003 NO ₃ _H_Outlet_10	NO ₃ -N	0.1 - 3.0 mg/L
3004 NO ₂ _H_Outlet_10	NO ₂ -N	0.1 - 4.0 mg/L

A user calibration of the OptRF methods can influence the measurement ranges for real samples. OptRF methods can possibly be applied to some similar matrixes such as surface waters. Substances such as sugars or alcohol cannot be detected optically.



Photometers

Reagent-free tests

% Transmittance

0 - 100 % T, 10, 20, 50 mm cuvette (self-absorption).

Extinction / Absorbance

According to the Lambert-Beer law, the extinction $E = \epsilon(\lambda) \cdot c \cdot d$ is proportional to the concentration of substances contained in the water. The proportionality constant $\epsilon(\lambda)$ depends on the wavelength. These constants, and other data required for the determination of water parameters, are stored in contemporary photometers as method data. The basic quantity measured is and remains the extinction.

Coloration

(EN ISO 7887: 1994)

If pure water is observed in transmitted light it appears to have a weak blue coloration. This coloration can change in the presence of contaminants to form a wide range of colorations. Natural waters usually have a yellow-brown color due to iron or clay particles or humic matter. (A green coloration can be produced by algae.) The "true" color of water is determined after filtration through a 0.45 μm filter.

Normally, most yellow-brown waters and the outflows of municipal sewage treatment plants can be measured at 436 nm. The outflows of industrial wastewater treatment plants show no sharp and distinctive extinction maxima. For the investigation of such water it is obligatory to measure at 436 nm (mercury line); the two other measuring wavelengths 525 nm and 620 nm can, depending on the filter used, vary slightly from these wavelengths. For discontinuous measurements the standard permits the use of filter photometers with a spectral bandwidth of < 20 nm for measurements at 436 nm, 525 nm and 620 nm. Thus, instruments with 445 nm and 520 nm interference filters with a bandwidth of 10 nm are also suitable. For comparability with the standard methods, however, a spectrophotometer is required. The results are presented in m^{-1} together with the measuring wavelength, spectral bandwidth, water temperature and pH.

In some publications the result is given in DFZ (translucent coloration number), which is identical with the m^{-1} result. (DIN ISO 6271: 19988)

To determine the color of clear liquids, the color number with the platinum-cobalt scale (Hazen color number, APHA color number) is used. Spectrophotometers are mentioned as being suitable for measuring the stock solutions at 430 nm, 455 nm, 480 nm and 510 nm. According to the

standard, the measurement itself is carried out with a color comparator that allows a visual comparison.

Chrome-plating bath

Reagent-free measurement of the self-coloration of an electroplating bath: 5 ml of the sample are pipetted into a 100 ml volumetric flask, filled up to the mark with distilled water and mixed well. 4 ml of the diluted sample are pipetted into a 100 ml volumetric flask, filled up to the mark with distilled water and mixed well. 5 ml of the 1:500 dilution are placed in a screw-cap glass and 5 ml 40% sulfuric acid are added. The glass is sealed and the contents mixed well. The solution is transferred into a rectangular cuvette for the measurement.

Nickel-plating bath

Reagent-free measurement of the self-coloration of an electroplating bath: 5 ml of the sample are pipetted into a round cuvette and 5 ml 40% sulfuric acid are added. The cuvette is sealed and the contents mixed. The solution is transferred into a rectangular cuvette for the measurement.

Copper-plating bath

Reagent-free measurement of the self-coloration of an electroplating bath: 25 ml of the sample are pipetted into a 100 ml volumetric flask, filled up to the mark with distilled water and mixed well. 5 ml of the diluted sample are placed in a screw-cap glass and 5 ml 40% sulfuric acid are added. The glass is sealed and the contents mixed well. The solution is transferred into a rectangular cuvette for the measurement.

SAC - Spectral Absorption Coefficient

The spectral absorption coefficient generally known as SAC (unit: $1/\text{m}$) and measured photometrically being the sum of dissolved organic water components: In drinking water, the SAC is commonly measured at a wavelength of 436 nm; within the wastewater industry at 254 nm. A separation has to be made between clear and turbid samples. It has to be considered that the determination as a sum parameter can only be applied usefully when assuming that the composition of the water content is not subject to extreme variations. SAC methods are available as part of the photoLab® 6000/7000 series.

Testing Aids / AQA for Photometry

CombiCheck			
Parameter	Concentration	Suitable for test set model	max. no. of determinations
Model		Order No.	
14676 CombiCheck 10		250482	
Ammonium	4.00 mg/l NH ₄ -N	A6/25 14558	90 90
Chloride	25.0 mg/l Cl	14730	90
COD	80 mg/l COD	C3/25 14540	30 30
Nitrate	2.5 mg/l NO ₃ -N	14556 14773	45 60
Phosphate	0.80 mg/l PO ₄ -P	P6/25 14543 14848	18 18 9
Sulfate	100 mg/l SO ₄	14548 14791 00617	18 40 48
Model		Order No.	
14675 CombiCheck 20		250483	
Ammonium	12.0 mg/l NH ₄ -N	14544	180
Chloride	60 mg/l Cl	14730	90
COD	750 mg/l COD	C4/25 14541	30 30
Nitrate	9.0 mg/l NO ₃ -N	N2/25 14542 14563 14773 14942 09713	90 60 90 60 60 180
Phosphate	8.0 mg/l PO ₄ -P	P7/25 14729	90 90
Sulfate	500 mg/l SO ₄	14564	90
Model		Order No.	
14677 CombiCheck 30 - replaced by 18700 CombiCheck 90			
Model		Order No.	
14692 CombiCheck 40 - replaced by 18701 CombiCheck 100			

CombiCheck			
Parameter	Concentration	Suitable for test set model	max. no. of determinations
Model		Order No.	
14695 CombiCheck 50		250486	
Ammonium	1.00 mg/l NH ₄ -N	14739 14752	19 19
Nitrogen	5.0 mg/l N _{Total}	14537 00613	9 9
COD	20.0 mg/l COD	14560	32
Model		Order No.	
14696 CombiCheck 60		250487	
COD	250 mg/l CSB	14690 14895	48 48
Chloride	125 mg/l Cl	14897	96
Model		Order No.	
14689 CombiCheck 70		250488	
Ammonium	50.0 mg/l NH ₄ -N	14559 00683	950 480
COD	5000 mg/l COD	14555	95
Nitrogen	50.0 mg/l N _{Total}	14763	95
Model		Order No.	
14738 CombiCheck 80		250489	
COD	1500 mg/l COD	14691	48
Nitrate	25.0 mg/l NO ₃ -N	14764	190
Phosphate	15.0 mg/l PO ₄ -P	14729 P7/25	95 95
Model		Order No.	
18700 CombiCheck 90 *		252501	
Cadmium	0.250 mg/l Cd	01745 14834	9 19
Copper	2.00 mg/l Cu	14553 14767	19 19
Iron	1.00 mg/l Fe	14549 14761 00796	19 19 12
Manganese	1.00 mg/l Mn	14770 00816	9 13
Model		Order No.	
18701 CombiCheck 100 *		252502	
Aluminium	0.40 mg/l Al	00594 14825	16 19
Nickel	2.00 mg/l Ni	14554 14785	19 19
Lead	2.00 mg/l Pb	14833 09717	19 11
Zinc	0.75 mg/l Zn	00861 14832	9 19

* Available Q1/2017

Model	Description	Order No.
Testing Equipment for Photometry		
PhotoCheck 14693	Testing equipment for AQA of optics and linearity of photoLab® S6/S12 and photoLab® 6000/7000 Series. Set of colour solutions in 16 mm round vials	250490
PipeCheck 14962	Testing equipment - AQA for pipette volume	250498
pHotoFlex® Check	PhotoCheck for photoFlex® Serie: standard solutions for instrument check with certificate, on request only	251306

Standard solutions				
Parameter	Conc. in mg/l	Contents in ml	Model	Order No.
Aluminium	1000	500	SL Al 19770	250460
Ammonium	1000	500	SL NH ₄ 19812	250461
AOX	20	85 (8-16 Checks)	AOX 00680	252026
BOD	210	10 bottles for 10 x 1l	BSB 00718	252030
Boron	1000	500	SL B 19500	250463
Cadmium	1000	500	SL Cd 19777	250464
Calcium	1000	500	SL Ca 19778	250465
Chloride	1000	500	SL Cl 19897	250466
Chromate	1000	500	SL CrO ₃ 19780	250468
Chromium	1000	500	SL Cr 19779	250467
COD 100	100	100	SL COD 100	252450
COD 400	400	100	SL COD 400	252451
Copper	1000	500	SL Cu 19786	250473
Fluoride	1000	500	SL F 19814	250470
Iron	1000	500	SL Fe 19781	250469
Lead	1000	500	SL Pb 19776	250462
Manganese	1000	500	SL Mn 19789	250474
Nickel	1000	500	SL Ni 19792	250475
Nitrate	1000	500	SL NO ₃ 19811	250476
Nitrite	1000	500	SL NO ₂ 19899	250477
Phosphate	1000	500	SL PO ₄ 19898	250478
Potassium	1000	500	SL K 70230	252471
Silicic acid / Silicium	1000	500	SL Si 70236	252472
Silver	1000	500	SL Ag 19797	250479
Sulfate	1000	500	SL SO ₄ 19813	250480
TOC	1000	100	SL TOC 09017	250499
Zinc	1000	500	SL Zn 19806	250481

Standard solutions which limited stability, to be freshly prepared at regular intervals:

- Free chlorine
- Bound chlorine
- Formaldehyde
- Hydrazine
- Hydrogen peroxide
- Hydrogen sulfide
- Phenol
- Silicon
- Sulfide
- Sulfite
- Anionic surfactants

Turbidity

Application areas for turbidity measuring					
	Turb® 355 T/IR	Turb® 430 T/IR	VisoTurb® 900-P	Turb® 550/ Turb® 550 IR	Turb® 555/ Turb® 555 IR
Applications	Portable use for wastewater, surface water and ground water applications	Portable use for all water testing applications incl. drinking water, Food & Beverage, process control Laboratory use: optional for all applications up to 1100 NTU/FNU with LabStation	Portable application for surface water, ground water, Food & Beverage, process control	Meter for routine and precise measurements	Meter for routine and precise measurements including QC of complex samples and high turbidity values.
Light source	Tungsten lamp/IR LED	Tungsten lamp/IR LED	IR LED	Tungsten lamp/IR LED	Tungsten lamp/IR LED
Measuring range	0-1100 NTU/FNU	0-1100 NTU/FNU	0-4000 NTU	0-1000 NTU/FNU	0-10000 NTU/FNU/FAU
Calibration	Automatic 1-3 point	Automatic 1-3 point	Automatic 1-3 point	Automatic 1-3 point	Automatic 1-5 point
Special features	Portable field meter	Portable field meter Calibration interval Calibration documentation Storage for measure values Optional: LabStation, LSdata	Optical sensor for use with MultiLine® IDS handhelds (see chapter multi-parameter systems)	AQA Flow-through measurement (unpressurized)	AQA complete with password protection, ratio method for the reduction of interferences; transmission, flow-through measurement (unpressurized/ up to 4 bar)

Model	Description	Order No.
Laboratory Turbidity Meters		
Turb® 550	Laboratory turbidimeter with tungsten lamp according to US EPA universal power supply 100 - 240 V AC, single instrument with calibration standard kit (0.02 - 10.0 - 1000 NTU), 3 empty vials, optional continuous flow measurement with D-Turb flow-thru vessel (600 600).	600100
Turb® 550 IR	Laboratory turbidimeter with infrared LED according to ISO 7027, DIN EN 27027 (EN ISO 7027), universal power supply 100 - 240 V AC, single instrument with calibration standard kit (0.02 - 10.0 - 1000 NTU), 3 empty vials, optional continuous flow measurement with D-Turb flow-thru vessel (600 600).	600110
Turb® 555	High end laboratory turbidimeter, with tungsten lamp according to US EPA universal power supply 100 - 240 V AC, single instrument with calibration standard kit (0.02 - 10.0 - 100 - 1750 NTU), 3 empty vials, optional continuous flow with D-Turb (600 600) or flow measurement at pressures up to 1 bar with Flow-Turb (600 605)	600200
Turb® 555* IR	High end laboratory turbidimeter, w. infrared LED according to ISO 7027, DIN EN 27027 (EN ISO 7027), universal power supply 100 - 240 V AC, single instrument with calibration standard kit (0.02 - 10.0 - 100 - 1750 NTU), 3 empty vials, optional continuous flow measurement with D-Turb (600 600) or flow measurement at pressures up to 1 bar with Flow-Turb (600 605)	600210
Laboratory Turbidity Meters - Turbidity Standards and Accessories		
Kal.Kit P Turb® 550/550IR	Calibration kit for turbidimeter Turb 550 and 550 IR: 0.02 - 10.0 - 1000 NTU, cleaning tissues and indexing rings.	600542
Kal.Kit P Turb® 555 IR	Calibration kit for turbidimeter Turb 555 IR: 0.02 - 10.0 - 100 - 1750 NTU, cleaning tissues and indexing rings.	600543
Kal.Std P 10000 NTU IR	Turbidity standard 10000 NTU for Turb 555 IR.	600544
Kal.Kit P Turb® 555	Calibration kit for turbidimeter Turb 555, 0.02 - 10.0 - 100 - 1750 NTU, cleaning tissues and indexing rings.	600545
Kal.Std P 10000 NTU WL	Turbidity standard 10000 NTU Turb 555	600546
D-Turb	Flow-through assembly for turbidimeters (measurements in the unpressurized range)	600600
Cell Turb/SET	Empty cuvettes for laboratory turbidimeter Turb 550, Turb 550 IR, Turb 555 and Turb 555 (IR). Delivery: 3 pcs.	600601
Lamp Turb 550/555-WL	Pre-adjusted spare lamp module (tungsten lamp), for turbidimeter Turb 550 and Turb 555	600603

Model	Description	Order No.
Flow-Turb	Flow-through assembly for laboratory turbidimeters Turb 555 and Turb 555 (IR), for low pressure (4bar) applications	600605
Lamp Turb 550 IR	Pre-adjusted spare lamp module (IR) for Turb model 550 IR	600607
Lamp Turb 555 IR	Pre-adjusted spare lamp module (IR) for Turb model 555 IR	600608
Portable Turbidity Meter		
Turb* 355 IR	Portable Turbidimeter with LED according to DIN EN 27027 / ISO 7027, battery operation: Single instrument in case with 4 MICRO (AAA size) alkaline batteries Calibration set (0.02-10.0-1000 NTU), 2 empty cuvettes and cleaning tissues.	600311
Turb* 355 T	Portable Turbidimeter with tungsten lamp according to US EPA battery operation Single instrument in case with 4 MICRO (AAA size) alkaline batteries Calibration set (0.02-10.0-1000 NTU), 2 empty cuvettes and cleaning tissues.	600312
Turb* 430 T	Portable turbidimeter (90°, tungsten) acc. US EPA 180.1 incl. calibration standard kit (0,02-10-1000 NTU) and accessories: 5 empty cuvette (28mm), cleaning tissues, batt. Optional: LabStation LS Flex/430 with software package LS Flex/430 for GLP-compliant data export (order no. 251301) or rechargeable batteries RB Flex/430 (order no. 251300), PC software LS Flex/430 (standalone order no. 902762)	600325
VisoTurb* 900-P	IDS IR turbidity sensor, titanium shaft, 0 bis 4000 FNU, pressure resistant up to 10 bars, with waterproof plug head for connection with cable AS/IDS-x.	600700
Turb* 430 IR	Portable turbidimeter for nephelometric measurement (90°) acc. DIN EN 27027, incl. calibration standard kit (0.02 - 10 - 1000 NTU/FNU), 5 empty cuvette, tissues, batt. (4 AA Mignon), suitable for drinking water. Optional: LabStation LS Flex/430 with software package LSdata Flex/430 for GLP-compliant data export and rech.batt. RB Flex/430 (order no. 251 301) or rechargeable batteries RB Flex/430 (order no. 251 300), PC software LSdata Flex/430 (stand alone 902762).	600320
Turb* 430 IR / SET	Portable turbidimeter (90°, Infrared) acc. DIN EN 27027 incl. calibration standard kit (0.02-10-1000 NTU/FNU) in field case with table insert and accessories: Kal.Kit, 5 empty cuvette (28 mm), cleaning tissues, screw driver, PC-software LSdata, PC cable AK 540 B, instruction. Optional: LabStation LS Flex/430 with PC-software LSdata Flex/430 for GLP-compliant data export and rechargeable batteries RB Flex/430 (order no. 251 301) or rechargeable batteries RB Flex/430 (order no. 251 300), PC software LSdata Flex/430 (stand alone, order no. 902762).	600321
Turb* 430 T / SET	Portable turbidimeter (90°, tungsten) acc. US EPA 180.1 incl. calibration standard kit (0.02-10-1000 NTU) in field case with table insert and accessories: Kal.Kit, 5 empty cuvette (28 mm), cleaning tissues, screw driver, PC-software LSdata, PC cable AK 540 B, instructions. Optional: LabStation LS Flex/430 with PC-software LSdata Flex/430 for GLP-compliant data export and rechargeable batteries RB Flex/430 (order no. 251301) or rech.batt. RB Flex/430 (order no. 251 300), PC software LSdata Flex/430 (stand alone, order no. 902762).	600326
Portable Turbidity Meter - Turbidity Standards and Accessories		
RB Flex/430	Rechargeable battery with universal plug for pHotoFlex® pH/ photoFlex® Turb and Turb* 430 IR/T.	251300
LS Flex/430	LabStation for easy lab use with software package LSdata Flex/430 for GLP-compliant data handling, null modem cable, rechargeable batteries, universal plug including loading function, RS232 Interface. Suitable for all pHotoFlex® and Turb* 430 models; use of bar code reader possible.	251301
FC pHotoFlex*/Turb* 430	Field case with table insert to hold instrument, stand and cuvettes for easy field handling. Additional space to hold accessories and pipette.	251304
Kal.Kit Turb* 430 IR	Calibration standard kit for Turb* 430 IR and photoFlex® Turb: 0.02-10-1000 NTU.	600560
Kal.Kit Turb* 430 T	Calibration standard kit for Turb* 430 T: 0.02-10-1000 NTU.	600561
Cal-Kit VT900	Calibration kit for VisoTurb* 900-P including each 250 ml turbidity standard 124 FNU and 1010 FNU and empty bottle for zero point calibration, (please see manual).	600702
SB VT 900	Sample bottle for IDS turbidity sensor, volume 500 ml.	600704
LK28-Set	12 empty cuvette for pHotoFlex® Series and Turb* 430 IR/T, 28x60 mm.	251302
Kal.Kit P Turb* 350 IR	Calibration kit for turbidimeter Turb 350 IR, 0.02-10.0-100-1000 NTU, cleaning tissue and 4 indexing rings.	600541
Kal.Kit P Turb* 355 IR/T	Calibration Set for Turbidimeter Turb 355 T, 355 IR: 0.02-10.0-1000 NTU, cleaning tissues and indexing rings.	600547
Cell Turb 350 / Set	Empty cuvettes for portable turbidimeter Turb 350 / 355 IR and 355 T, Delivery: 3 pcs.	600606

Colony Counter

Model	Description	Order No.
Colony Counter		
BZG 40	Colony counter with switchable LED illumination, magnifier, data storage and universal power supply. Including reduction segment, Wolfshügel grid, Stift, instruction manual and CD-ROM.	803320
BZG/MAG 8 x	8-fold magnifier for BZG 40	803321

Software/Printers

Overview of Meters/Cables/Software							
MI = MultiLab® Importer		Mp = MultiLab® pilot		AO = ACHAT OC		MA = Multi/ACHAT II	
				pDS = photoLab® Data spectral		LS = LSdata	
b = bidirectional				f = can be remote controlled		u = unidirectional	
Instrument	Software	Interface cables	Type	Instrument (discontinued)	Software	Interface cables	Type
inoLab® pH 7310	MI	AK USB A-Mini	b	pH 340i/3400i*	Mp	AK 340/B	b
inoLab® Oxi 7310	MI	AK USB A-Mini	b	Oxi 340i/3400i*	Mp	AK 340/B	b
inoLab® Cond 7310	MI	AK USB A-Mini	b	Cond 197i, 1970i	Mp	AK 340/B	b
inoLab® pH/ION 7320	MI	AK USB A-Mini	b	Cond 340i/3400i*	Mp	AK 340/B	b
inoLab® Multi 9310 IDS	MI	AK USB A-Mini	b	pH 197i, 1970i	Mp	AK 340/B	b
inoLab® Multi 9420 IDS, 9620 IDS	MI	AK USB A-Mini	b	pH/Cond 340i/3400i*	Mp	AK 340/B	b
inoLab® Multi 9430 IDS, 9630 IDS	MI	AK USB A-Mini	b	pH/ION 340i/3400i*	Mp	AK 340/B	b
pH 3310	MI	AK USB A-Mini	b	pH/Oxi 340i/3400i*	Mp	AK 340/B	b
Oxi 3310	MI	AK USB A-Mini	b	inoLab® 730/7300*	Mp	AK 340/B	b
Cond 3310	MI	AK USB A-Mini	b	inoLab® 735/7350*	Mp	AK 340/B	b
pH/Cond 3320	MI	AK USB A-Mini	b	inoLab® Level 2	Mp	AK 340/B	b
Multi 3320	MI	AK USB A-Mini	b	Multi 197i, 1970i	Mp	AK 340/B	b
pH 3310 IDS	MI	AK USB A-Mini	b	Multi 340i	Mp	AK 340/B	b
Oxi 3310 IDS	MI	AK USB A-Mini	b	Multi 350i	Mp	AK 340/B	b
Cond 3310 IDS	MI	AK USB A-Mini	b	Oxi 197i, 1970i	Mp	AK 340/B	b
MultiLine® IDS: Multi 34x0, Multi 3510 IDS, Multi 3620 IDS, Multi 3630 IDS	MI	AK USB A-Mini	b	Oxi 3315	MI	AK USB A-Mini	b
pHotoFlex® Series	LS	AK 540 B, ADA USB	u				
photoLab® S6, S12	MA	AK Labor	b				
photoLab® 6000/7000 Series	pDS	ADA 12V	b				
Turb® 430 Series	LS	AK 540 B, ADA USB	u				
OxiTop® OC 100/110	AO	AK 540 B	u				

Note: When using USB adapter without cable, instrument specific cables are required!

* North American version

Software/Printers | Colony Counter

Model	Description	Order No.
Software and Accessories		
KOM Labor	Communications package: software program Multi/Achat II for Windows for transfer and evaluation of measuring data incl. AK Labor interface cable.	902754
AK Labor	Interface cable with 9-pin socket for connecting an instrument to a PC via the RS 232 Interface.	902758
ADA 12V	Adapter for (car) operation of photoLab® 6000 series 12V	902760
LSdata Flex/430	GLP compliant PC software for data management and -transfer for photoFlex® and Turb 430 series (stand alone).	902762
photoLab® color + Data spectral	<i>New</i> photoLab® color + photoLab® Data <i>spectral</i> PC-software package; replaces former photoLab Data <i>spectral</i> (order number 902761). CIE based color measurement (LAB, Luv...), Hazen (Pt-Co), Yellowness, Gardner etc. for photoLab® 7000 series together with GLP-compliant data management and export into LIMS.	902763
AK 340/B	Interface cable for connecting an instrument with 4-pin socket to a PC via the RS 232 interface.	902841
AK 540/B	Interface cable for connection of instrument with 6-pin socket to a PC via RS 232 interface.	902842
ADA USB/Ser	Adapter USB to serial interface RS 232 (9-pin socket) for inoLab® Level 2/730, 3xxi, 197i, 1970i including cable AK 340/B.	902880
ADA USB	Adapter USB to serial interface RS 232 (9-pin socket) for WTW laboratory instruments without connection cable, instrument specific cable necessary.	902881
AK CR/PC	PC connection cable for CR 2200, CR 3200 and CR 4200 thermoreactors.	250102
Printers and Interface cable		
P 3001	Thermal matrix printer, paper width 112 mm, preset baud rate: 4800; preset characters/line: 40, AC and battery operation,	250045
RP P 3000	Printer paper for printer P 3000, width 58 mm, (spare part, printer no longer available).	250112
RP P 3001	Printer paper for P 3001 and inoLab® printer, thermal paper legible for approx. 5 years, width 112 mm.	250113
RP P 3001 HQ	Printer paper for P 3001 and inoLab® printer, thermal paper legible for approx. 10 years, width 112 mm.	250114
RP 58 HQ	Quality thermal printer paper for für inoLab® 7310P/9310P. Width 58 mm, length 9 m. Long lasting readability.	250115
AK 3000	Interface cable for connecting one instrument for which LQ 300 is recommended to P 3001.	250745
AK 325/S	Interface cable to connect an instrument to printer P 3001.	902837
AK USB A-B 3 m	USB cable A + B, 3 m.	902882
AK USB A-Mini	USB cable for MonoLine and ProfiLine 3310 portable meters or MultiLine® multi-parameter portable meters.	902883
AK CR/P	Printer connection cable for CR 2200, CR 3200 and CR 4200 thermoreactors	250101

Sellout of products

Order No.	Model
103690	SenTix® V
203810	Oxi-Stirrer 300
902854	TG/ML

Accessories for Data Logger

Model	Description	Order No.
Accessories WQL Series (Old Systems)		
Sensolyt® WQL	Long-term stable and pressure resistant pH electrode (120 mm) with polymer electrolyte and SMEK plug.	103709
Sensolyt® WQL-Pt	Long-term stable and pressure resistant ORP electrode (120 mm) with polymer electrolyte and SMEK plug for data logger WQL-pH.	103714
WQL-RB	Powerful 3.6 V Li battery for data logger WQL-pH.	109825

pH 3110	21	SenTix® 945-P	17, 24	TEP 2	25
pH 3110 SET 2	21	SenTix® 950	16, 22	TEP 4	25
pH 3310	21	SenTix® 950-P	16, 24	TEP 4/10	25
pH 3310 SET 2	21	SenTix® 980	17, 24	TEP 4/25	25
pH/Cond 3320	18	SenTix® 980-P	16, 24	TEP 7	25
pH/Cond 3320 SET 2	18	SenTix® Ag	28	TEP 7/10	25
pH/ION 3310	31	SenTix® Au	28	TEP 7/25	25
pH-Cap	26	SenTix® H	22	TetraCon® 325	39
Phenol 14551	54-75	SenTix® HW	22	TetraCon® 325 S	40
Phenol 00856	54-75	SenTix® HWD	22	TetraCon® 325/C	40
PhotoCheck 14693	79	SenTix® HW-T 900	16, 22	TetraCon® 325-10	39
pHotoFlex® Check	79	SenTix® HW-T 900-P	17, 24	TetraCon® 325-15	39
pHotoFlex® pH	51	SenTix® Mic	22	TetraCon® 325-20	39
pHotoFlex® pH/SET	51	SenTix® Mic-B	22	TetraCon® 325-3	39
pHotoFlex® STD	51	SenTix® Mic-D	22	TetraCon® 325-6	39
pHotoFlex® STD/SET	51	SenTix® Micro 900	16, 22	TetraCon® 925	17, 39
pHotoFlex® Turb	51	SenTix® Micro 900-P	17, 24	TetraCon® 925/C	17, 40
pHotoFlex® Turb/SET	51	SenTix® ORP	28	TetraCon® 925/LV	17, 39
photoLab® 7100 VIS	50	SenTix® ORP-T 900	17, 28	TetraCon® 925/LV-P	17, 40
photoLab® 7600 UV-VIS	50	SenTix® ORP-T 900-P	17, 28	TetraCon® 925-3	17, 39
photoLab® color + Data spectral	51, 84	SenTix® PtR	28	TetraCon® 925-P	15, 17, 40
photoLab® S12	50	SenTix® RJD	22	TetraCon® DU/T	40
photoLab® S12-A	50	SenTix® Sp	22	TetraCon® DU/TH	40
photoLab® S6	50	SenTix® Sp-DIN	22	TetraCon® V	39
photoLab® S6-A	50	SenTix® Sp-T 900	16, 22	TFK 150	26
PipeCheck 14962	79	SenTix® SP-T 900-P	17, 24	TFK 150/E	26
PL 12	26	SenTix® Sur	22	TFK 150-1,5	26
PL 2	26	SEP 25	45	TFK 325	26
PL 4	26	SF 300	37	TFK 325/HC	26
PL 7	26	Si 14794	54-75	TFK 325/HC-3	26
PL 9	26	Si 00857	54-75	TFK CR	51
PL6-10 SIC	51	Si-1 TP (LR)	54-75	TISAB	33
PL6-Brew	51	Si-2 TP (HR)	54-75	TISAB/NO3	33
PO4 00616	54-75	Si-3 TP (HR)	54-75	TOC 14878	54-75
PO4 00798	54-75	SK-325	35	TOC 14879	54-75
PO4 14546	54-75	SK-D	36	TOC 73500	52
PO4 14842	54-75	SLAg 19797	80	TPL 10	25
PO4 14848/1	54-75	SLAl 19770	80	TPL 10 Trace	25
PO4 14848/2	54-75	SLB 19500	80	TPL 10 TRACE/10	25
PO4 P6/25	54-75	SLCa 19778	80	TPL 10 TRACE/25	25
PO4 P7/25	54-75	SLCd 19777	80	TPL 10/10	25
PO4-1 TP	54-75	SLCl 19897	80	TPL 10/25	25
PO4-2 TC	54-75	SLCOD 100	80	TPL 4	25
PO4-3 TC	54-75	SLCOD 400	80	TPL 4/10	25
PO4-4 TC	54-75	SLCr 19779	80	TPL 4/25	25
PSP/Var 5	52	SLCrO3 19780	80	TPL 7	25
		SLCu 19786	80	TPL 7/10	25
		SLF 19814	80	TPL 7/25	25
Q	<i>price list pages</i>	SLFe 19781	80	TS 1006-i	45
QSC KIT	18, 26	SLK 70230	80	TS 19	37, 43
		SLMn 19789	80	TS 606/2-i	45
R	<i>price list pages</i>	SLNH4 19812	80	TS 606/4-i	45
R 503/D	32	SLNi 19792	80	TS 606-G/2-i	45
RB Flex/430	51, 82	SLNO2 19899	80	TS 606-G/4-i	45
REC 10 PMMA	52	SLNO3 19811	80	Turb® 355 IR	82
REC 50/2	52	SLPb 19776	80	Turb® 355 T	82
REF 600	46	SLPO4 19898	80	Turb® 430 IR	82
REK 10	52	SLSi 70236	80	Turb® 430 IR / SET	82
REK 10 Quarz	52	SLSO4 19813	80	Turb® 430 T	82
REK 20	52	SLTOC 09017	80	Turb® 430 T / SET	82
REK 20 Quarz	52	SLZn 19806	80	Turb® 550	81
REK 50	52	SM 325	21, 35, 39	Turb® 550 IR	81
REK 50 Quarz	52	SM Pro	18, 21, 35, 39	Turb® 555	81
RH 28	28	Sn 14622	54-75	Turb® 555* IR	81
RH/Ca 14683	54-75	SO3 14394	54-75		
RK 14/25	52	SO3 01746	54-75	U	<i>price list pages</i>
RL-AG/Oxi	37	SO4 14548	54-75	USP KIT 1	41
RL-G	35, 36	SO4 14564	54-75	USP KIT 2	41
RP 58 HQ	84	SO4 14791	54-75		
RP P 3000	84	SO4 00617	54-75	V	<i>price list pages</i>
RP P 3001	84	SO4-1 TP	54-75	VisoTurb® 900-P	17, 82
RP P 3001 HQ	84	SO4-2 TP	54-75	Vol Acid 01809	54-75
RST 600	46	SORT/K	25	Vol Acid 01749	54-75
RZ 300	35, 43	SORT/STP/G	26	VS 25	45
		SORT/TEP	26	VS 45	45
		SORT/TEP/G	24		
S	<i>price list pages</i>	SORT/TEP/G/TRACE	25	W	<i>price list pages</i>
S 14779	54-75	SORT/TEP/TRACE	25	WLM Charger	16, 24, 26, 36, 40
S/A Cap.pH4.3/CO2 01758	54-75	SORT/TP	24	WP 90/3	35, 37
S/FK	33	SORT/TP/LG	24	WP3-D	36
SB VT 900	17, 82	SORT/TP/LG/TRACE	25	WP3-ST	36
SC-FDO® 925	17, 36	SORT/TP/L/TRACE	25	WQL-RB	85
SensoLyt® 900 ORP-P	15, 16, 28	SPB	52		
SensoLyt® 900-P	15, 16, 22	STAPL-4/7/9	26	Z	<i>price list pages</i>
SensoLyt® MPP-A	19, 26	Sta-ST	36	ZBK 325	18, 35
SensoLyt® WQL	85	STH 25	45	ZBK 90/190	37
SensoLyt® WQL-Pt	85	STH 320	26, 37, 41	ZBK ST	36
SenTix® 20	21	STH 650	26, 33, 41	ZBK/NH3/2	33
SenTix® 21	21	STH 9400	18	ZBK-D	36
SenTix® 21-3	21	StirrOx® G	36, 43	Zn 06146	54-75
SenTix® 22	21	ST-OxiTop®	45	Zn 14566	54-75
SenTix® 41	21	STP 10	25	Zn 14832	54-75
SenTix® 41-3	21	STP 10 TRACE	25	Zn 00861	54-75
SenTix® 42	21	STP 4	25		
SenTix® 51	22	STP 7	25		
SenTix® 52	22				
SenTix® 60	21	T	<i>price list pages</i>		
SenTix® 61	22	TA-SensoLyt® PtA	26		
SenTix® 62	22	TA-SensoLyt® SEA	26		
SenTix® 81	22	TEP 10	25		
SenTix® 82	22	TEP 10 Trace	25		
SenTix® 91	22	TEP 10 TRACE/10	25		
SenTix® 940	16, 22	TEP 10 TRACE/25	25		
SenTix® 940-3	16, 22	TEP 10/10	25		
SenTix® 940-P	16, 22	TEP 10/25	25		
SenTix® 945	16, 22				

XYLEM EMEA GENERAL CONDITIONS for the sale and supply of products

November 2016. 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.

2.6 Unless agreed otherwise, the risk shall transfer to the Purchaser when the product leaves Supplier's premises; this also applies in case of partial deliveries or if the Supplier has taken over additional services such as the payment of shipping costs, delivery and installation. The risk shall also transfer to Purchaser in the event that Purchaser is in default of acceptance.

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 9.3 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

XYLEM EMEA GENERAL CONDITIONS for the sale and supply of products

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. 478 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, or such longer period as set out in Supplier's price list and order confirmation, from the transfer of risk. The same applies to legal defects. In the event of wilful 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, 479 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).

What can Xylem do for you?

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, and agricultural settings. With its October 2016 acquisition of Sensus, Xylem added smart metering, network technologies and advanced data analytics for water, gas and electric utilities to its portfolio of solutions. 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



Xylem Analytics Germany Sales GmbH & Co. KG, WTW

Dr.-Karl-Slevogt-Straße 1
D-82362 Weilheim
Germany

Phone: +49 881 183-0
Fax: +49 881 183-420
E-Mail: Info.WTW@Xylem.com
Internet: www.WTW.com

Quotations and Orders
Phone: +49 881 183-324
Fax: +49 881 183-411
E-Mail: Order.WTW@Xylem.com

Technical Information
Phone: +49 881 183-321
Fax: +49 881 183-425
E-Mail: TechInfo.WTW@Xylem.com

Repair Service
Phone: +49 881 183-325
Fax: +49 881 183-414
E-Mail: Service.WTW@Xylem.com

For customers in North America:

YSI Incorporated
1700/1725 Brannum Lane
Yellow Springs, Ohio 45387-1107
USA

Phone: +1 937-767-7241
Phone: +1 800-765-4974
Fax: +1 937-767-9353
E-Mail: environmental@ysi.com

WTW Newsletter



Are you interested in signing up for the free **WTW newsletter**?

www.wtw.com/en/newsletter

WTW at YouTube

Subscribe to our YouTube channel, and be updated about our new video uploads!

<http://www.youtube.com/wtgmhbinternational>



YouTube

Connect with us:

