

ScienceLine pH combination electrodes

pH combination electrodes with plug head and fixed cable

Reference system: Silamid®
Shaft material: glass
Zero point: pH = 7.0 ± 0.3
Electrolyte: KCl 3 mol/l
 (except N 6250: KCl 4.2 mol/l
 A 7780 and L 7780: gel electrolyte
 L 8280: Referid® electrolyte)
Membrane shape: sphere
pH range: 0 .. 14
Connection cable for plug head: e.g. L 1 A
 (See also page with connection cables)
fixed cable: 1 m long, with plug A acc. to DIN 19262 or with BNC plug



H 61
 H 62
 H 63
 N 61
 N 62
 H 6180
 H 6280
 H 6380
 N 6180
 N 6250
 N 6280
 N 42 A
 N 42 BNC
 N 50 A
 N 52 A
 N 52 BNC
 N 61 eis
 H 61-500
 H 61-600

H 64
 H 64 1M-DIN-ID
 H 64 1M-BNC-ID
 N 64
 N 6480 eis
 N 6480 eth

N 65
 H 65
 H 6580
 N 6580

L 32

A 7780
 L 7780

N 6980

L 8280



Order No.	Type No.	Length L [mm]	Ø [mm]	Dia- phragm	pH- glass	Temp. range [°C]	Connection	Remarks
285101260	A 7780	120	12	3 x ceramic	A	-5 ... +80	plug head	gel electrolyte
285100207	H 61	170	12	platinum	H	+10 ... +100	plug head	
285092583	H 61-500	500	12	platinum	H	0...+100	plug head	
285092591	H 61-600	600	12	platinum	H	0...+100	plug head	
285102524	H 6180	170	12	ceramic	H	+10 ... +100	plug head	
285100215	H 62	120	12	platinum	H	+10 ... +100	plug head	
285102532	H 6280	120	12	ceramic	H	+10 ... +100	plug head	
285100223	H 63	320	12	platinum	H	+10 ... +100	plug head	
285102549	H 6380	320	12	ceramic	H	+10 ... +100	plug head	
285100231	H 64	170	12	ground joint	H	+10 ... +100	plug head	
285130220	H 64 1M-DIN-ID	170	12	ground joint	H	+10 ... +100	DIN plug ²⁾	ID function
285130230	H 64 1M-BNC-ID	170	12	ground joint	H	+10 ... +100	BNC plug ²⁾	ID function
285100248	H 65	103 ¹⁾	10	platinum	H	+10 ... +100	plug head	standard taper NS 14.5
285102565	H 6580	103 ¹⁾	10	ceramic	H	+10 ... +100	plug head	standard taper NS 14.5
1061093	L 32	120	12	fibre	A	-5 ... +50	plug head	plastic shaft
285101252	L 7780	120	12	ceramic	L	-5 ... +80	plug head	gel electrolyte
285101277	L 8280	120	12	KPG®	L	-5 ... +80	plug head	Referid® electrolyte
285100437	N 42 A	120	12	ceramic	A	-5 ... +100	DIN plug ²⁾	
285101544	N 42 BNC	120	12	ceramic	A	-5 ... +100	BNC plug ²⁾	
285100453	N 50 A	108	12	ceramic	A	-5 ... +100	DIN plug ²⁾	for portable Knick pH meters
285100494	N 52 A	120	12	platinum	A	-5 ... +100	DIN plug ²⁾	
285105451	N 52 BNC	120	12	platinum	A	-5 ... +100	BNC plug ²⁾	
285100001	N 61	170	12	platinum	A	-5 ... +100	plug head	
285100018	N 6180	170	12	ceramic	A	-5 ... +100	plug head	
285100034	N 62	120	12	platinum	A	-5 ... +100	plug head	
285100112	N 6250	120	12	ceramic	A	+15 ... +40	plug head	calomel ref., for TRIS buffers
285100042	N 6280	120	12	ceramic	A	-5 ... +100	plug head	
285100059	N 64	170	12	ground joint	A	-5 ... +100	plug head	
285100067	N 65	103 ¹⁾	10	platinum	A	-5 ... +100	plug head	standard taper NS 14.5
285102516	N 6580	103 ¹⁾	10	ceramic	A	-5 ... +100	plug head	standard taper NS 14.5
285101709	N 6980	103 ¹⁾	10	ground joint	A	-5 ... +100	plug head	standard taper NS 14.5
285092661	N 61 eis	170	12	3 x platinum	A	+10 ... +40	plug head	electrolyte L 5014, Ag/AgCl ref.
285092337	N 6480 eis	170	12	ground joint	A	+10 ... +40	plug head	electrolyte L 5014, Ag/AgCl ref.
285092329	N 6480 eth	170	12	ground joint	A	0 ... +40	plug head	electrolyte L 5014, Ag/AgCl ref.

¹⁾ Length from upper end of standard taper

²⁾ with 1 m fixed cable

ScienceLine pH combination electrodes with temperature sensor

pH combination electrodes with temperature sensor

Reference system: Silamid®
Shaft material: glass
Diameter: 12 mm
Zero point: pH = 7.0 ± 0.3
Electrolyte: KCl 3 mol/l
Temperature sensor: Pt 1000
Membrane shape: sphere
pH range: 0 ... 14
Connection cable:
for SMEK-plug head: e.g. LS 1 ANN
 (See also page with connection cables)
fixed cable: 1 m long, with plug A acc. to DIN 19262 or with BNC plug, as well as plug for temperature sensor



N 1042 A
 N 1041 A
 N 1041 BNC
 N 1042 BNC
 N 1050 A
 N 1051 A
 N 1051 BNC
 N 1052 A
 N 1052 BNC
 N 2041 A
 N 2042 A
 N 1041 A - 600
 N 1043 A

A 162
 A 161
 H 161
 H 162
 A 161 1M DIN ID
 A 161 1M BNC ID
 H 161 1M DIN ID
 H 161 1M BNC ID

A 164
 A 164 1M DIN ID
 A 164 1M BNC ID

A 7780 1M DIN ID
 A 7780 1M BNC ID



Order No.	Type No.	Length L [mm]	Dia-phragm	pH-glass	Temp.-range [°C]	Connection	Remarks
285129517	A 161	170	platinum	A	-5 ... +100	SMEK plug head	
285130240	A 161 1M-DIN-ID	170	platinum	A	-5 ... +100	DIN ¹⁾ - + 4-mm plug	ID function
285130250	A 161 1M-BNC-ID	170	platinum	A	-5 ... +100	BNC ¹⁾ - + 4-mm plug	ID function
285129525	A 162	120	platinum	A	-5 ... +100	SMEK plug head	
285129600	A 164	170	ground joint	A	-5 ... +100	SMEK plug head	
285130280	A 164 1M-DIN-ID	170	ground joint	A	-5 ... +100	DIN ¹⁾ - + 4-mm plug	ID function
285130290	A 164 1M-BNC-ID	170	ground joint	A	-5 ... +100	BNC ¹⁾ - + 4-mm plug	ID function
285130200	A 7780 1M-DIN-ID	120	3 x ceramic	A	-5 ... +80	DIN ¹⁾ + 4-mm plug	ID function
285130210	A 7780 1M-BNC-ID	120	3 x ceramic	A	-5 ... +80	BNC ¹⁾ + 4-mm plug	ID function
285129590	H 161	170	platinum	H	+10 ... +100	SMEK plug head	
285130260	H 161 1M-DIN-ID	170	platinum	H	+10 ... +100	DIN ¹⁾ - + 4-mm plug	ID function
285130270	H 161 1M-BNC-ID	170	platinum	H	+10 ... +100	BNC ¹⁾ - + 4-mm plug	ID function
285129580	H 162	120	platinum	H	+10 ... +100	SMEK plug head	
285100486	N 1041 A	170	ceramic	A	-5 ... +100	DIN ¹⁾ + 4-mm plug	
285093111	N 1041 A-600	600	ceramic	A	-5...+100	DIN ¹⁾ + 4-mm plug	Ag/AgCl ref.
285100531	N 1041 BNC	170	ceramic	A	-5 ... +100	BNC ¹⁾ + 4-mm plug	
285104541	N 1042 A	120	ceramic	A	-5 ... +100	DIN ¹⁾ + 4-mm plug	
285105476	N 1042 BNC	120	ceramic	A	-5 ... +100	BNC ¹⁾ + 4-mm plug	
285093009	N 1043 A	320	ceramic	A	-5...+100	DIN ¹⁾ + 4-mm plug	
285100375	N 1050 A	108	ceramic	A	-5 ... +100	DIN ¹⁾ + 4-mm plug	for portable Knick pH Meter
285100510	N 1051 A	170	platinum	A	-5 ... +100	DIN ¹⁾ + 4-mm plug	
285100500	N 1051 BNC	170	platinum	A	-5 ... +100	BNC ¹⁾ + 4-mm plug	
1054512	N 1052 A	120	platinum	A	-5 ... +100	DIN ¹⁾ + 4-mm plug	
285100380	N 1052 BNC	120	platinum	A	-5 ... +100	BNC ¹⁾ + 4-mm plug	
285100342	N 2041 A	170	ceramic	A	-5 ... +100	DIN ¹⁾ + 2-mm plug	
285100359	N 2042 A	120	ceramic	A	-5 ... +100	DIN ¹⁾ + 2-mm plug	

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¹⁾ with 1 m fixed cable

ScienceLine micro, spear tip and surface pH combination electrodes

Micro, spear tip and surface pH combination electrodes

Reference system: Silamid®
Shaft material: glass
 (except L 39:
 plastic shaft)
Zero point: pH = 7.0 ± 0.3
Electrolyte: KCl 3 mol/l
 (except L8880:
 Referid®)
**Type of
 membrane glass:** A
**Connection cable:
 for SMEK plug head:** e.g. LS 1 ANN
 (See also page
 with connec-
 tion cables)
**for plug head
 versions:** e.g. L 1 A
 (See also page
 with connec-
 tion cables)
fixed cable: 1 m long, with
 plug A acc.
 to DIN 19262
 or with
 BNC plug, as
 well as plug
 for temperature
 sensor



A 157 1M
 BNC ID
 A 157
 A 157 1M
 DIN ID

N 5800 A
 N 5800 BNC
 N 5900 A

N 6000 1M
 DIN ID
 N 6000 1M
 BNC ID
 N 6000 A
 N 6000 BNC

N 6003

L 6880
 L 6880 1M-
 DIN-ID
 L 6880 1M-
 BNC-ID
 L 8880

N 1048 A
 N 1048 1M
 DIN ID
 N 1048 1M
 DIN ID
 N 48 A
 N 48 BNC

L 39
 L 39 1M
 DIN ID
 L 39 1M
 DIN ID

Order No.	Type No.	Length L [mm]	Ø [mm]	Dia- phragm	pH- glass	Membrane shape	Temp.- range [°C]	Range [pH]	Connection	Remarks
Micro										
285129610	A 157 ¹⁾	40/130	12/5	platinum	A	cylindrical	-5 ... +100	0 ... 14	SMEK plug head	
285130160	A 157 1M-DIN-ID ¹⁾	40/130	12/5	platinum	A	cylindrical	-5 ... +100	0 ... 14	DIN plug ³⁾	ID function
285130170	A 157 1M-BNC-ID ¹⁾	40/130	12/5	platinum	A	cylindrical	-5 ... +100	0 ... 14	BNC plug ³⁾	ID function
285105127	N 5800 A	96 ²⁾	5	3 x platinum	A	spear	-5 ... +100	0 ... 14	DIN plug ³⁾	Ag/AgCl ref.
285105579	N 5800 BNC	96 ²⁾	5	3 x platinum	A	spear	-5 ... +100	0 ... 14	BNC plug ³⁾	Ag/AgCl ref.
285105135	N 5900 A	96 ²⁾	5	platinum	A	sphere	-5 ... +100	0 ... 14	DIN plug ³⁾	Ag/AgCl ref.
285105151	N 6000 A	96 ²⁾	3	platinum	A	cylindrical	-5 ... +100	0 ... 14	DIN plug ³⁾	Ag/AgCl ref.
285105632	N 6000 BNC	96 ²⁾	3	platinum	A	cylindrical	-5 ... +100	0 ... 14	BNC plug ³⁾	Ag/AgCl ref.
285130180	N 6000 1M-DIN-ID	96 ²⁾	3	platinum	A	cylindrical	-5 ... +100	0 ... 14	DIN plug ³⁾	ID function, Ag/AgCl ref.
285130190	N 6000 1M-BNC-ID	96 ²⁾	3	platinum	A	cylindrical	-5 ... +100	0 ... 14	BNC plug ³⁾	ID function, Ag/AgCl ref.
285105176	N 6003	180	3	ceramic	A	cylindrical	-5 ... +100	0 ... 14	plug head	Ag/AgCl ref.
Spear tip										
285101211	L 6880	70/50	12/8	3 x ceramic	A	spear	-5 ... +100	0 ... 14	plug head	
285130100	L 6880 1M-DIN-ID	70/50	12/8	3 x ceramic	A	spear	-5 ... +100	0 ... 14	DIN plug ³⁾	ID function
285130110	L 6880 1M-BNC-ID	70/50	12/8	3 x ceramic	A	spear	-5 ... +100	0 ... 14	BNC plug ³⁾	ID function
285101285	L 8880	70/50	12/8	hole	A	spear	-5 ... +80	2 ... 13	plug head	
285104611	N 1048 A ¹⁾	120	12	ceramic	A	spear	-5 ... +100	0 ... 14	DIN- ³⁾ + 4-mm plug	
285130120	N 1048 1M-DIN-ID ¹⁾	120	12	ceramic	A	spear	-5 ... +100	0 ... 14	DIN- ³⁾ + 4-mm plug	ID function
285130130	N 1048 1M-BNC-ID ¹⁾	120	12	ceramic	A	spear	-5 ... +100	0 ... 14	BNC- ³⁾ + 4-mm plug	ID function
285100445	N 48 A	120	12	ceramic	A	spear	-5 ... +100	0 ... 14	DIN plug ³⁾	
285101569	N 48 BNC	120	12	ceramic	A	spear	-5 ... +100	0 ... 14	BNC plug ³⁾	
Surface										
1061094	L 39	120	12	fibre	A	flat	-5 ... +50	1 ... 13	plug head	
285130140	L 39 1M-DIN-ID	120	12	fibre	A	flat	-5 ... +50	1 ... 13	DIN plug ³⁾	ID function
285130150	L 39 1M-BNC-ID	120	12	fibre	A	flat	-5 ... +50	1 ... 13	BNC plug ³⁾	ID function

¹⁾ with integrated temperature sensor Pt 1000

²⁾ Length from upper end of standard taper (Standard taper NS 7.5)

³⁾ with 1 m fixed cable

ScienceLine metal combination electrodes

Metal combination electrodes with plug head and connection cable

Temperature range: -5 ... +100 °C
(except Pt 6140: +10 ... +40 °C)

Reference system: Silamid®

Shaft material: glass

Electrolyte: KCl 3 mol/l
(See also remarks)

Connection cable:
for plug head: e.g. L 1 A
(See also page with connection cables)

fixed cable: 1 m long, with plug A acc. to DIN 19262 or with BNC plug



AgCl 62
AgCl 65
Ag 42 A
Ag 6180
Ag 6280
Ag 6580
AgCl 6280
Au 6280

Pt 61
Pt 62
Pt 6180
Pt 6280
Pt 6580
Pt 42 A

Pt 6880
Pt 6980
Pt 48 A

Pt 6140

Pt 8280

Pt 5900 A
Pt 5900 BNC
Pt 5901

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Order No.	Type No.	Length L [mm]	Dia-phragm	Ø [mm]	Sensor Metal, shape	Connection	Remarks
285102051	Ag 42 A	120	ceramic	12	Ag, cap, 5 mm Ø	DIN plug ⁴⁾	electrolyte L 2114, Ag/AgCl ref.
285102208	Ag 6180	170	ceramic	12	Ag, cap, 5 mm Ø	plug head	electrolyte L 2114, Ag/AgCl ref.
285102343	Ag 6280	120	ceramic	12	Ag, cap, 5 mm Ø	plug head	electrolyte L 2114, Ag/AgCl ref.
285102216	Ag 6580	103 ¹⁾	ceramic	10	Ag, cap, 5 mm Ø	plug head	electrolyte L 2114, Ag/AgCl ref.
285102351	AgCl 6280 ³⁾	120	ceramic	12	Ag, cap, 5 mm Ø	plug head	electrolyte L 2114, Ag/AgCl ref.
285102413	AgCl 62 ³⁾	120	platinum	12	Ag, cap, 5 mm Ø	plug head	electrolyte L 2114, Ag/AgCl ref.
1061051	AgCl 65 ³⁾	103 ¹⁾	platinum	12	Ag, cap, 5 mm Ø	plug head	electrolyte L 2114, Ag/AgCl ref.
285102121	Au 6280	120	ceramic	12	Au, pole, 2 mm Ø	plug head	
285102302	Pt 42 A	120	ceramic	12	Pt, pole, 1 mm Ø	DIN plug ⁴⁾	
285102224	Pt 48 A	120	ceramic	12	Pt, ring, 6 mm Ø	DIN plug ⁴⁾	Ag/AgCl ref.
285105192	Pt 5900 A	96 ²⁾	platinum	5	Pt, pole, 1 mm Ø	DIN plug ⁴⁾	Ag/AgCl ref.
285105702	Pt 5900 BNC	96 ²⁾	platinum	5	Pt, pole, 1 mm Ø	BNC plug ⁴⁾	Ag/AgCl ref.
285105065	Pt 5901	160 ²⁾	platinum	5	Pt, pole, 1 mm Ø	plug head	
285102002	Pt 61	170	platinum	12	Pt, pole, 1 mm Ø	plug head	
285102019	Pt 62	120	platinum	12	Pt, pole, 1 mm Ø	plug head	
285097162	Pt 6140	150/20	platinum	12/5	Pt, pole, 1 mm Ø	plug head	for spear tip, electrolyte L420
285102232	Pt 6180	170	ceramic	12	Pt, pole, 1 mm Ø	plug head	
285102249	Pt 6280	120	ceramic	12	Pt, pole, 1 mm Ø	plug head	
285102257	Pt 6580	103 ¹⁾	ceramic	10	Pt, pole, 1 mm Ø	plug head	
285100075	Pt 6880	120	ceramic	12	Pt, ring, 6 mm Ø	plug head	
285102265	Pt 6980	170	ceramic	12	Pt, ring, 6 mm Ø	plug head	
285102281	Pt 8280	120	KPC®	12	Pt, round, 6 mm Ø	plug head	electrolyte Referid®

¹⁾ Length from upper end of standard taper; standard taper NS 14.5

²⁾ Length from upper end of standard taper; standard taper NS 7.5

³⁾ Sensor coated with AgCl

⁴⁾ with 1 m fixed cable

ScienceLine single electrodes: pH glass electrodes and metal electrodes

ScienceLine single electrodes

pH glass electrodes

Reference system: Silamid®
Shaft material: glass, 12 mm Ø
Zero point: pH = 7.0 ± 0.3
Membrane shape: sphere
Connection cable: e.g. L 1 A

Metal electrodes

Shaft material: glass, 12 mm Ø
(See remarks)



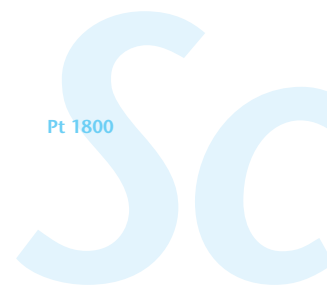
A 1180
H 1180

Ag 1100

KF 1100

Pt 1400
Pt 1200

Pt 1800



Order No.	Type No.	Length L [mm]	pH Glass	Range [pH]	Temp.- range [°C]	Remarks
1057997	A 1180 ¹⁾	120	H	0 ... 14	0 ... +80	plug head
285103212	H 1180	120	H	0 ... 14	10 ... +100	plug head

Order No.	Type No.	Length L [mm]	Sensor Metal	Sensor shape	Temp. range [°C]	Remarks
285103607	Ag 1100	120	Ag	cap, 4 mm Ø	-5 ... +100	plug head, cable e.g. L 1 A
285102030	KF 1100	96 ¹⁾	Pt ²⁾	2 pole, 1 mm Ø	-30 ... +135	shaft 5 mm Ø, standard taper NS 7.5, fixed cable, 2x 4-mm plug
285103512	Pt 1200	120	Pt ²⁾	2 pole, 1 mm Ø	-30 ... +135	plug head, cable e.g. L 1 NN
285103537	Pt 1400	103 ¹⁾	Pt ²⁾	2 pole, 1 mm Ø	-30 ... +135	shaft 10 mm Ø, standard taper NS 14.5, cable e.g. L 1 NN
285103553	Pt 1800	120	Pt	ring, 6 mm Ø	-30 ... +135	plug head, cable e.g. L 1 A

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¹⁾ Length from upper end of standard taper

²⁾ Double platinum electrode

ScienceLine single electrodes: Reference electrodes

Reference electrodes

Shaft material: glass

Electrolyte depending on reference system:

Ag/AgCl: KCl 3 mol/l,
e.g. L 300

Calomel: KCl 4.2 mol/l,
e.g. L 420

Hg/Hg₂SO₄: K₂SO₄ 0.6 mol/l,
e.g. L 1254

pH range: 0 ... 14

Connection cable: e.g. L 1 N



B 2220+

B 2420+

B 2810+
B 2820+
B 2910+
B 2920+

B 3420+
B 3410+
B 3510+
B 3520+
B 3610+

B 3920+



Order No.	Type No.	Length L [mm]	Ø [mm]	Temp. range [°C]	Dia-phragm	Reference system	Remarks
1069994	B 2220+	120	12	-5 ... +100	platinum	Ag/AgCl	double electrolyte system
1070028	B 2420+	120	12	-5 ... +100	ground joint	Ag/AgCl	
1070029	B 2810+	120	12	+15 ... +40	ceramic	Calomel	
1070044	B 2820+	120	12	-5 ... +100	ceramic	Ag/AgCl	
1070077	B 2910+	120	12	+15 ... +40	platinum	Calomel	
1070046	B 2920+	120	12	-5 ... +100	platinum	Ag/AgCl	
1070048	B 3410+	103 ¹⁾	10	+15 ... +40	ceramic	Calomel	standard taper NS 14.5
1070070	B 3420+	103 ¹⁾	10	-5 ... +100	ceramic	Ag/AgCl	standard taper NS 14.5
1070100	B 3510+	103 ¹⁾	10	+15 ... +40	platinum	Calomel	standard taper NS 14.5
1070073	B 3520+	103 ¹⁾	10	-5 ... +100	platinum	Ag/AgCl	standard taper NS 14.5
1070074	B 3610+	103 ¹⁾	10	+15 ... +40	ceramic	Hg/Hg ₂ SO ₄	standard taper NS 14.5
1070075	B 3920+	103 ¹⁾	10	-5 ... +100	ground joint	Ag/AgCl	double electrolyte system, standard taper NS 14.5

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¹⁾ Length from upper end of standard taper

ScienceLine conductivity measuring cells with fixed cable

Conductivity measuring cells with fixed cable and 8-pole plug

Shaft: 12 mm Ø
 (except LF 413 T-3 and LF 413 T: 15.3 mm)
 Temperature sensor: NTC 30 kΩ



LF 213 T
 LF 213 T ID

LF 313 T NTEC
 LF 313 T
 LF 313 T ID

LF 413 T-3
 LF 413 T
 LF 413 T ID

LF 513 T
 LF 613 T
 LF 813 T

LF 713 T
 LF 713 T-250

LF 913 T
 LF 913 T ID

LFOX 1400
 LFOX 1400 ID



Order No.	Type No.	Length L [mm]	Ø [mm]	Sensor	Cell const. approx. [cm ⁻¹]	Temp. range [°C]	Meas. range ¹⁾ [µS/cm] . . [mS/cm]	Remarks
285106150	LF 213 T	120	12	Stainless steel	0.01	0 ... +100	0 ... 0.03	Trace conductivity cell with integrated flow-through vessel, stainless steel, 1.5 m cable
285106160	LF 213 T ID	120	12	Stainless steel	0.01	0 ... +100	0 ... 0.03	Trace conductivity cell with integrated flow-through vessel, stainless steel, 1.5 m cable, ID function
285414360	LF 313 T	120	12	Stainless steel	0.1	0 ... +100	0 ... 0.2	Ultrapure water conductivity cell with flow-through vessel, stainless steel shaft, fixed cable 1.5 m
285130300	LF 313 T-ID	120	12	Stainless steel	0.1	0...+100	0 ... 0.2	Ultrapure water conductivity cell with flow-through vessel, stainless steel shaft, cable 1.5 m, ID function
285414351	LF 313 T NFTC	120	12	Stainless steel	0.1	0 ... +100	0 ... 0.2	Ultrapure water conductivity cell without flow-through vessel, stainless steel shaft, fixed cable 1.5 m
285106172	LF 413 T	120	15.3	4 x Graphite	0.475	-5 ... +80	1 ... 2000	Plastic shaft, 1.5 m cable
285130310	LF 413 T-ID	120	15.3	4 x Graphite	0.475	-5 ... +80	0 ... 2000	Plastic shaft, 1.5 m cable, ID function
285106148	LF 413 T-3	120	15.3	4 x Graphite	0.475	-5 ... +80	1 ... 2000	Plastic shaft, fixed cable 3 m
285106037	LF 513 T	120	12	2 Pt rings	1.0	-5 ... +80	1 ... 200	Plastic shaft, 1 m cable
285106131	LF 613 T	120	12	4 Pt rings	1.0	-5 ... +80	1 ... 2000	Plastic shaft, 1 m cable
285106189	LF 713 T	120	12	4 Pt rings	1.0	-30 ... +135	1 ... 2000	Glass shaft, 1 m cable
285106190	LF 713 T-250	250	12	4 Pt rings	1.0	-30 ... +135	1 ... 2000	Glass shaft, 1 m cable
285106250	LF 813 T	120	12	5 Pt rings	0.650	-5 ... +80	1 ... 2000	Plastic shaft, 1 m cable
285106260	LF 913 T	120	12	5 Pt rings	0.650	-30 ... +135	1 ... 2000	Glass shaft, 1 m cable
285130320	LF 913 T-ID	120	12	5 Pt rings	0.650	-30 ... +135	1 ... 2000	5-pole cell, glass shaft, 1 m cable, ID function
285104630	LFOX 1400	145	15.3	Graphite	0.475	0 ... +50	1 ... 2000	Combined 4-pole conductivity cell and galvanic D.O. sensor LFOX 1400 ID, plastic shaft, fixed cable 3 m
285130330	LFOX 1400 ID	145	15.3	Graphite	0.475	0...+50	1 ... 2000	Combined 4-pole conductivity cell and galvanic D.O. sensor LFOX 1400 ID, plastic shaft, fixed cable 3 m, ID function

¹⁾ Outside the recommended ranges measuring errors >10% can occur with these conductivity measuring cells.

ScienceLine conductivity measuring cells with plug head

Conductivity measuring cells with plug head

Shaft: 12 mm Ø



Order No.	Type No.	Length L [mm]	Ø [mm]	Sensor	Cell const. approx. [cm ⁻¹]	Temp. range [°C]	Meas. range ¹⁾ [µS/cm] . . [mS/cm]	Remarks
1069976	LF 1100+	120	12	2 Pt plates	1.0	-30 ... 135	0 ... 200	SMEK plug head
1069977	LF 1100T+	120	12	2 Pt plates	1.0	-30 ... 135	0 ... 200	SMEK plug head
1069978	LF 4100+	120	12	2 Pt plates	1.0	-30 ... 135	0 ... 200	SMEK plug head, flow-through cell
1069979	LF 5100+	120	12	2 Pt rings	1.0	-5 ... 80	0 ... 200	SMEK plug head, plastic shaft
1069990	LF 5100T+	120	12	2 Pt rings	1.0	-5 ... 80	0 ... 200	SMEK plug head, plastic shaft

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¹⁾ Outside the recommended ranges measuring errors >10% can occur with these conductivity measuring cells.

ScienceLine sensors for ammonia, sodium, oxygen, ion-selective indicator electrodes

Ammonia combination electrode with plug head

Shaft material: plastic, 12 mm Ø
Connection cable: e.g. L 1 A

Sodium combination electrode with plug head

Reference system: Silamid®
Shaft material: glass, 12 mm Ø
Zero point: pNa = 2.0
Membrane shape: sphere
Connection cable: e.g. L 1 A

Oxygen electrodes

Shaft material: plastic (POM)

ISE measuring cells

Shaft material: plastic
Length: 120 mm
Fixed cable: 1 m long, with DIN plug

ISE combination electrodes with plug head

Shaft material: plastic
Length: 120 mm



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NH 1100

Na 61

OX 1100+

9009/61

Cu 1100 A

F 60

Ca 1100 A

Cl 60

F 1100 A

NO 60

Pb 1100 A

K 60

CA 60

CN 60

AG-S 60

I 60

BR 60

CU 60

PB 60

Order No.	Type No.	Length L [mm]	Temp. range [°C]	Meas. range [mg/l]	Remarks
285102808	NH 1100	120	0 ... +50	0.1 ... 1,000	membrane module replaceable

Order No.	Type No.	Length L [mm]	Diaphragm	Membrane Glass	Temp. range [°C]	Meas. range [pNa]	Remarks
285100026	Na 61	170	platinum	Na	-10 ... +80	0 ... 6	electrolyte KCl 3 mol/l, aqueous solution NaCl 0.1 mol/l

Order No.	Type No.	Length L [mm]	Temp. range [°C]	Meas. range [mg/l]	Remarks
1069975	OX 1100+	120	0 ... +45	0 ... 60	galvanic sensor, Pt cathode, Ag anode, SMEK plug head, temperature compensated (NTC 100kΩ), shaft 12 mm Ø, measuring current at saturation approx. 100 nA, minimum flow rate 10 cm/s, connection cable e.g. LS 1 ST4 OX (for CG 867)
285111664	9009/61	145	0 ... +50	0 ... 50	amperometric sensor, Au cathode, Pb anode, fixed cable 1.5 m ¹⁾ with 8-pole plug, IMT temperature compensation, shaft 15.25 mm Ø, membrane FEP, 13 µm thick, accuracy 1% at 18 cm/s flow rate.

Order No.	Type No.	Parameter	Temp. range [°C]	pH-range	Measuring range [mg/l]
285216314	Ca 1100 A	Calcium	0 ... +40	2.5 ... 11	0.02 ... 40,000
285216312	Cu 1100 A	Copper	0 ... +80	2 ... 6	0.0006 ... 6,400
285216313	F 1100 A	Fluoride	0 ... +80	5 ... 7	0.02 ... saturated
285216315	Pb 1100 A	Lead	0 ... +80	4 ... 7	0.1 ... 20,000

Order No.	Type No.	Parameter	Temp. range [°C]	pH-range	Measuring range [mg/l]
285130340	F 60	Fluoride	0 ... +80	5 ... 7	0.02 ... saturated
285130350	Cl 60	Chloride	0 ... +80	2 ... 12	2 ... 35,000
285130360	NO 60	Nitrate	0 ... +40	2.5 ... 11	0.4 ... 62,000
285130370	K 60	Potassium	0 ... +40	2 ... 12	0.04 ... 39,000
285130380	CA 60	Calcium	0 ... +40	2.5 ... 11	0.02 ... 40,000
285130390	CN 60	Cyanide	0 ... +80	0 ... 14	0.2 ... 260
285130400	AG-S 60	Sulfide	0 ... +80	2 ... 12	0.003 ... 32,000
285130410	I 60	Iodide	0 ... +80	0 ... 14	0.006 ... 127,000
285130420	BR 60	Bromide	0 ... +80	1 ... 12	0.4 ... 79,000
285130430	CU 60	Copper	0 ... +80	2 ... 6	0.0006 ... 6400
285130440	PB 60	Lead	0 ... +80	4 ... 7	0.2 ... 20,000

¹⁾ Other cable lengths available on request