

## 2.2.5.1 BlueLine

### The robust electrodes for general applications

pH range	0 to 14
Temperature range	-5 to + 80 °C
Shaft	Noryl, 12 mm Ø
Shaft length L	120 mm
Zero point	pH= 7.0±0.3
Junction	ibre
Referencesystem	Ag /AgCl
Reference electrolyte	gel (KCl), low maintenance, not reillable
Shape of glass membrane	cylindrical
Resistance of glass membrane (25 °C)	400 M
Type of membrane glass	A

### The liquid electrolyte electrodes for demanding measurements

pH range	0 to 14
Temperature range	-5 to + 100 °C
Shaft	glass, 12 mm Ø
Shaft length L L	120 mm
Zero point	pH= 7.0±0.3
Junction	platinum
Referencesystem	Ag /AgCl
Reference electrolyte	KCl 3 mol/l
Shape of glass membrane	conical
Resistance of glass membrane (25 °C)	200 M
Type of membrane glass	A



BlueLine  
28 pH  
22 pH  
23 pH  
23-2 pH  
23-5 pH-S  
24 pH  
24-3 pH  
24 pH IDS  
24-3 pH IDS  
25 pH  
25-2 pH  
25-5 pH  
26 pH  
26 pH-Cinch  
28 pH-P  
28-5 pH  
29 pH  
29 pH-P

BlueLine  
18 pH  
11 pH  
12 pH  
14 pH  
14 pH ID  
14 pH IDS  
15 pH  
15 pH ID  
15 pH Cinch  
17 pH  
17 pH-R  
19 pH

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## pH single-rod measuring cells

Order No.	BlueLine Type No.	Temperature sensor integrated	Connection
285129225	22 pH	no	plug head, recommended cable: e.g. LB1A
285129233	23 pH	no	1 m ixed cable with DIN plug 19 262
1063462	23-2 pH	no	2 m ixed cable with DIN plug
1066411	23-5 pH-S	no	5 m ixed cable with Splug
285129241	24 pH	NTC 30 k	1 m ixed cable with DIN plug 19 262 + bananaplug
285129533	24-3 pH	NTC 30 k	3 m ixed cable with DIN plug 19 262 + bananaplug
285128240	24 pH IDS	NTC 30 k	1.5 m ixed cable with IDSplug
285429243	24-3 pH IDS	NTC 30 k	3 m ixed cable with IDSplug
285129258	25 pH	no	1 m ixed cable with BNC plug
1063461	25-2 pH	no	2 m ixed cable with BNC plug
285129540	25-5 pH	no	5 m ixed cable with BNC plug
285129266	26 pH	NTC 30 k	1 m ixed cable with BNC plug + bananaplug
285095712	26 pH-Cinch	NTC 30 k	1 m ixed cable with BNC plug + cinchplug
285129282	28 pH	Pt 1000	1 m ixed cable with DIN plug 19 262 + bananaplug
1065896	28 pH-P	Pt 1000	1 m ixed cable with DIN plug 19 262 + 2-mm pole plug
285129570	28-5 pH	Pt 1000	5 m ixed cable with DIN plug 19 262 + bananaplug
1065895	29 pH	Pt 1000	1 m ixed cable with BNC plug + bananaplug
1065894	29 pH-P	Pt 1000	1 m ixed cable with BNC plug + 2-mm pole plug

Order No.	BlueLine Type No.	Temperature sensor integrated	Connection
285129114	11 pH	no	plug head, recommended cable: e.g. LB1A
285129122	12 pH	no	1 m ixed cable with DIN plug 19 262
285129147	14 pH	NTC 30 k	1 m ixed cable with DIN plug 19 262 + bananaplug
285129440	14 pH ID	NTC 30 k	1 m ixed cable with DIN plug + bananaplug, ID function
285129140	14 pH IDS	NTC 30 k	1.5 m ixed cable with IDSplug
285129155	15 pH	NTC 30 k	1 m ixed cable with BNC plug + bananaplug
285129450	15 pH ID	NTC 30 k	1 m ixed cable with BNC plug + bananaplug, ID function
285095730	15 pH Cinch	NTC 30 k	1 m ixed cable with BNC plug + cinchplug
285129171	17 pH	no	1 m ixed cable with BNC plug
1064746	17 pH-R	no	1 m ixed cable with Metrohm plug
285129188	18 pH	Pt 1000	1 m ixed cable with DIN plug 19 262 + bananaplug
285129190	19 pH	Pt 1000	1 m ixed cable with BNC plug + bananaplug

# BlueLine

## 2.2.5.2 BlueLine - Special sensors

The specialists  
for special applications

Zero point of  
pH electrodes  
pH= 7.0 ± 0.3

Connection cable  
for pH/Redox  
electrodes  
e.g. LB 1 A



BlueLine 13 pH	BlueLine 16 pH	BlueLine 21 pH	BlueLine 27 pH	BlueLine 54 pH	BlueLine 31 Rx	BlueLine 32 Rx	BlueLine 48 LF
		21 pH 1M DIN ID	27 pH 1M DIN ID	BlueLine 56 pH	31 RxIDS	32 Rx IDS	
		21 pH 1M BNC ID	27 pH 1M BNC ID	BlueLine 56 pH Cinch		32-3 RxIDS	
		21 pH IDS	27 pH IDS				

Precision electrode <b>BlueLine 13 pH</b>	Glassshaft, screw ground joint junction, electrolyte KCl 3 mol/l, Ag/AgCl reference system, spherical membrane, A-glass, plug head, length 170 mm, 12 mm Ø, -5 to +100 °C, 0 to 14 pH, Order No. 285129139
Micro electrode <b>BlueLine 16 pH</b>	Glassshaft, platinum junction, electrolyte KCl 3 mol/l, Ag/AgCl reference system, spherical membrane, A-glass, plug head, length 40/80 mm, 12/5 mm Ø, -5 to +100 °C, 0 to 14 pH, Order No. 285129163
Speartip electrode <b>BlueLine 21 pH</b>	Glassshaft, hole junction, Referid®electrolyte, Ag/AgCl reference system, Spear membrane, A-glass, plug head, length 65/25 mm, 12/5 mm Ø, -5 to +80 °C, 2 to 13 pH, Order No. 285129217
Speartip electrode with sensor recognition <b>BlueLine 21 pH 1M-DIN-ID</b>	Like BlueLine 21 pH but with 1 m fixed cable with DIN plug and sensor recognition Order No. 285129930
Speartip electrode with sensor recognition <b>BlueLine 21 pH 1M-BNC-ID</b>	Like BlueLine 21 pH but with 1 m fixed cable with BNC plug and sensor recognition Order No. 285129940
Speartip electrode with IDSfunction <b>BlueLine 21 pH IDS</b>	Plasticshaft, hole-junction, Referid®electrolyte, Ag/AgCl-reference system, temp. sensor NTC 30 kOhm, spear membrane, A-glass, 1.5 m fixed cable with digital plug, length 90 (65/25) mm, 12/5 mm Ø, -5...+80 °C, 2...13 pH Order No. 285129210
Surface electrode <b>BlueLine 27 pH</b>	Glassshaft, KPG®annular gap junction, Referid®electrolyte, Ag/AgCl reference system, lat membrane, A-glass, plug head, length 120 mm, 12 mm Ø, -5 to +50 °C, 2 to 13 pH, Order No. 285129274
Surface electrode with sensor recognition <b>BlueLine 27 pH 1M-DIN-ID</b>	Like BlueLine 27 pH but with 1 m fixed cable with DIN plug and sensor recognition Order No. 285129950
Surface electrode with sensor recognition <b>BlueLine 27 pH 1M-BNC-ID</b>	Like BlueLine 27 pH but with 1 m fixed cable with BNC plug and sensor recognition Order No. 285129960
Surface electrode with IDSfunction <b>BlueLine 27 pH IDS</b>	Glassshaft, KPG-annular-gap-junction, Referid®electrolyte, Ag/AgCl-reference system, temp.-sensor NTC 30 kOhm, lat membrane, L glass, 1.5 m fixed cable with digital plug, length 120 mm, 12 mm Ø, -5...+50 °C, 2...13 pH Order No. 285129270
Combination electrode with plastic shaft <b>BlueLine 54 pH</b>	Ceramic junction, electrolyte KCl 3 mol/l, Ag/AgCl-reference system, temp.-sensor NTC 30 kW, cylinder membrane, A glass, 1 m fixed cable with BNC-+4-mm banana plug, length 120 mm, 12 mm Ø, -5 to +80 °C, 0 to 14 pH Order No. 285129460
Combination electrode with plastic shaft <b>BlueLine 56 pH</b>	Like BlueLine 54 pH but with BNC plug Order No. 285129640
Combination electrode with plastic shaft <b>BlueLine 56 pH cinch</b>	Like BlueLine 54 pH but with BNC and cinch plug Order No. 285129650
Redox electrode <b>BlueLine 31 Rx</b>	Glassshaft, ceramic junction, electrolyte KCl 3 mol/l, Ag/AgCl reference system, sensor platinum disk 4 mm Ø, plug head, length 120 mm, 12 mm Ø, -5 to +100 °C, Order No. 285129311
Redox electrode with IDSfunction <b>BlueLine 31 Rx IDS</b>	Glassshaft, ceramic junction, electrolyte KCl 3 mol/l, Ag/AgCl-reference system, temp.-sensor NTC 30 kOhm, sensor platinum disk 4 mm Ø, 1.5 m fixed cable with digital plug, length 120 mm, 12 mm Ø, -5...+100 °C Order No. 285129310
Redox electrode <b>BlueLine 32 Rx</b>	Plasticshaft, fibre junction, gel electrolyte, Ag/AgCl reference system, sensor platinum pin 1 mm Ø, plug head, length 120 mm, 12 mm Ø, -5 to +80 °C, Order No. 285129320
Redox electrode with IDSfunction <b>BlueLine 32 Rx IDS</b>	Plasticshaft, fibre junction, gel electrolyte, Ag/AgCl-reference system, temp.-sensor NTC 30 kOhm, sensor platinum pin 1 mm Ø, 1.5 m fixed cable with digital plug, length 120 mm, 12 mm Ø, -5...+80 °C Order No. 285129321
Redox electrode with IDSfunction <b>BlueLine 32-3 Rx IDS</b>	Plasticshaft, fibre-junction, gel electrolyte, Ag/AgCl-reference system, temp.-sensor NTC 30 kOhm, sensor platinum pin 1 mm Ø, 3 m fixed cable with digital plug, length 120 mm, 12 mm Ø, -5...+80 °C Order No. 285129323
Conductivity cell for low ionic media <b>BlueLine 48 LF</b>	Stainlesssteel shaft, 2-pin cell, 1 m fixed cable with 8-pole plug, sensor stainlesssteel, cell constant 0.1 cm-1, temperature sensor NTC 30 kW, length 120 mm, 12 mm Ø, -5 to +100 °C, measuring range 0 to 300 µS/cm, Order No. 285129488