

# BlueLine pH combination electrodes

## The robust electrodes for general applications

<b>pH range</b>	0...14
<b>Temperature range</b>	-5...+80 °C
<b>Shaft</b>	Noryl, 12 mm Ø
<b>Shaft length L</b>	120 mm
<b>Zero point</b>	pH = 7.0 ± 0.3
<b>Diaphragm</b>	fibre
<b>Reference system</b>	Ag/AgCl
<b>Reference electrolyte</b>	gel (KCl), low maintenance, not refillable
<b>Shape of glass membrane</b>	cylindrical
<b>Resistance of glass membrane (25 °C)</b>	400 MΩ
<b>Type of membrane glass</b>	A

## The liquid electrolyte electrodes for demanding measurements

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



BlueLine	BlueLine
<b>28 pH</b>	<b>18 pH</b>
22 pH	11 pH
23 pH	12 pH
23-2 pH	14 pH
23-5 pH-S	14 pH ID
24 pH	15 pH
24-3 pH	15 pH ID
25 pH	15 pH Cinch
25-2 pH	17 pH
25-5 pH	17 pH-R
26 pH	19 pH
26 pH-Cinch	
28 pH-P	
28-5 pH	
29 pH	
29 pH-P	

# BlueLine

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 fixed cable with DIN plug 19 262
1063462	23-2 pH	no	2 m fixed cable with DIN plug
1066411	23-5 pH-S	no	5 m fixed cable with S plug
285129241	24 pH	NTC 30 k $\Omega$	1 m fixed cable with DIN plug 19 262 + banana plug
285129533	24-3 pH	NTC 30 k $\Omega$	3 m fixed cable with DIN plug 19 262 + banana plug
285129258	25 pH	no	1 m fixed cable with BNC plug
1063461	25-2 pH	no	2 m fixed cable with BNC plug
285129540	25-5 pH	no	5 m fixed cable with BNC plug
285129266	26 pH	NTC 30 k $\Omega$	1 m fixed cable with BNC plug + banana plug
285095712	26 pH-Cinch	NTC 30 k $\Omega$	1 m fixed cable with BNC plug + cinch plug
285129282	28 pH	Pt 1000	1 m fixed cable with DIN plug 19 262 + banana plug
1065896	28 pH-P	Pt 1000	1 m fixed cable with DIN plug 19 262 + 2-mm pole plug
285129570	28-5 pH	Pt 1000	5 m fixed cable with DIN plug 19 262 + banana plug
1065895	29 pH	Pt 1000	1 m fixed cable with BNC plug + banana plug
1065894	29 pH-P	Pt 1000	1 m fixed 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 fixed cable with DIN plug 19 262
285129147	14 pH	NTC 30 k $\Omega$	1 m fixed cable with DIN plug 19 262 + banana plug
285129440	14 pH ID	NTC 30 k $\Omega$	1 m fixed cable with DIN plug + 4-mm banana plug, ID function
285129155	15 pH	NTC 30 k $\Omega$	1 m fixed cable with BNC plug + banana plug
285129450	15 pH ID	NTC 30 k $\Omega$	1 m fixed cable with BNC plug + 4-mm banana plug, ID function
285095730	15 pH Cinch	NTC 30 k $\Omega$	1 m fixed cable with BNC plug + cinch plug
285129171	17 pH	no	1 m fixed cable with BNC plug
1064746	17 pH-R	no	1 m fixed cable with Metrohm plug
285129188	18 pH	Pt 1000	1 m fixed cable with DIN plug 19 262 + banana plug
285129190	19 pH	Pt 1000	1 m fixed cable with BNC plug + banana plug

ueLine

# 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  
31 Rx

BlueLine  
32 Rx

BlueLine  
48 LF

21 pH 1M 27 pH 1M  
DIN ID DIN ID

21 pH 1M 27 pH 1M  
BNC ID BNC ID

# BlueLine

<b>Precision electrode</b> <b>BlueLine 13 pH</b>	Glass shaft, screw ground joint diaphragm, electrolyte KCl 3 mol/l, Ag/AgCl reference system, spherical membrane, A-glass, plug head, length 170 mm, 12 mm Ø, -5 ... +100 °C, 0 ... 14pH, Order No. 285129139
<b>Micro electrode</b> <b>BlueLine 16 pH</b>	Glass shaft, platinum diaphragm, electrolyte KCl 3 mol/l, Ag/AgCl reference system, spherical membrane, L-glass, plug head, length 40/80 mm, 12/5 mm Ø, -5 ... +100 °C, 0 ... 14pH, Order No. 285129163
<b>Spear tip electrode</b> <b>BlueLine 21 pH</b>	Glass shaft, hole diaphragm, Referid® electrolyte, Ag/AgCl reference system, Spear membrane, L-glass, plug head, length 65/25 mm, 12/5 mm Ø, -5 ... +80 °C, 2 ... 13pH, Order No. 285129217
<b>Spear tip electrode</b> <b>with sensor recognition</b> <b>BlueLine 21 pH 1M-DIN-ID</b>	Glass shaft, hole diaphragm, Referid® electrolyte, Ag/AgCl reference system, Spear membrane, L-glass, 1 m fixed cable with DIN plug and sensor recognition, length 65/25 mm, 12/5 mm Ø, -5...+80 °C, 2...13 pH Order No. 285129930
<b>Spear tip electrode</b> <b>with sensor recognition</b> <b>BlueLine 21 pH 1M-BNC-ID</b>	Glass shaft, hole diaphragm, Referid® electrolyte, Ag/AgCl reference system, Spear membrane, L-glass, 1 m fixed cable with BNC plug and sensor recognition, length 65/25 mm, 12/5 mm Ø, -5...+80 °C, 2...13 pH Order No. 285129940
<b>Surface electrode</b> <b>BlueLine 27 pH</b>	Glass shaft, KPG® annular gap diaphragm, Referid® electrolyte, Ag/AgCl reference system, flat membrane, L-glass, plug head, length 120 mm, 12 mm Ø, -5 ... +50 °C, 2 ... 13pH, Order No. 285129274
<b>Surface electrode</b> <b>with sensor recognition</b> <b>BlueLine 27 pH 1M-DIN-ID</b>	Glass shaft, KPG® annular gap diaphragm, Referid® electrolyte, Ag/AgCl reference system, flat membrane, L-glass, 1 m fixed cable with DIN plug and sensor recognition, length 120 mm, 12 mm Ø, -5...+50 °C, 2...13 pH Order No. 285129950
<b>Surface electrode</b> <b>with sensor recognition</b> <b>BlueLine 27 pH 1M-BNC-ID</b>	Glass shaft, KPG® annular gap diaphragm, Referid® electrolyte, Ag/AgCl reference system, flat membrane, L-glass, 1 m fixed cable with BNC plug and sensor recognition, length 120 mm, 12 mm Ø, -5...+50 °C, 2...13 pH Order No. 285129960
<b>Redox electrode</b> <b>BlueLine 31 Rx</b>	Glass shaft, ceramic diaphragm, electrolyte KCl 3 mol/l, Ag/AgCl reference system, sensor platinum disk 4 mm Ø, plug head, length 120 mm, 12 mm Ø, -5 ... +100 °C, Order No. 285129311
<b>Redox electrode</b> <b>BlueLine 32 Rx</b>	Plastic shaft, fibre diaphragm, gel electrolyte, Ag/AgCl reference system, sensor platinum pin 1 mm Ø, plug head, length 120 mm, 12 mm Ø, -5 ... +80 °C, Order No. 285129320
<b>Conductivity cell</b> <b>for low ionic media</b> <b>BlueLine 48 LF</b>	Stainless steel shaft, 2-pin cell, 1 m fixed cable with 8-pole plug, sensor stainless steel, cell constant 0.1 cm <sup>-1</sup> , temperature sensor NTC 30 kΩ, length 120 mm, 12 mm Ø, -5 ... +80 °C, measuring range 0 ... 300 μS/cm, Order No. 285129488