pH electrodes



range	000 0	0-00 C	0-00 0	000 C	000 C	000 C	000 C	070 C	-5 60 C	0 140 C	000 C
Conductivity	> 100 µS/cm	> 100 µS/cm	> 20 µS/cm	> 100 µS/cm	> 200 µS/cm	> 100 µS/cm	> 200 µS/cm	> 200 µS/cm	> 100 µS/cm	> 100 µS/cm	> 50 µS/cm
Temperature measuring	no	no	no	no	no	integr. Pt1000 4 mm banana		integr. Pt1000 4 mm banana	no	no	no
Water-proof	no	no	no	no	no	no	no	yes	no	no	no
Pressure resistant	no	no	no	6 bar	no	6 bar	no	1 bar	no	10 bar	6 bar
Cable	1 m 1)	1 m 1)	1 m 1)	2 m 1)	1 m	2 m 2)	1 m	2 m	1 m 1)	ohne	1 m 1)
Electrolyte	3 mol/l KCl	3 mol/l KCl	3 mol/I KCI	gel electrolyte	gel electrolyte	gel electrolyte	gel electrolyte	gel electrolyte	3 mol/l KCl	gel electrolyte	gel electrolyte
Diaphragm	2 x ceramic	2 x ceramic	moving joint	2 x ceramic	1 x pellon	2 x ceramic	2 x ceramic	1 x ceramic	1 x ceramic	2 x ceramic	joint
Thread	without	without	without	PG 13.5	without	PG 13.5	without	without	without	PG 13.5	PG 13.5
Electrode shaft	Tyril, Ø 12 mm x 120 mm	glass, Ø 12 or 6 mm x 120 mm	glass, Ø 12 mm x 120 mm	PSU, Ø 12 mm x 120 mm	epoxide, Ø 12 mm x 120 mm	PSU, Ø 12 mm x 120 mm	PVC, Ø 22 mm x 110 mm	epoxide, Ø 12 mm x 120 mm	glass, Ø 12 mm x 120 mm	glass, Ø 12 mm x 120 mm	glass, Ø 12 mm x 120 mm
Features	universal electrode	tip Ø 6 mm, small sample volume	for low-ion media	low- maintenance	Low-cost low- maintenance	temperature compensated	insertion electrode, blade Ø 13 mm x 60 mm	submersible, water-proof IP67 (also BNC-plug)	chemicals- resistant glass shaft	for extreme conditions, sterilizable, autoclavable	for process chemistry, bio-chemistry, alkali-resistant
Connection:											
Cinch	•	•	•	•	-	-	•	-	•	-	•
BNC	•	•	٠	•	•	•	•	•	•	-	•
S7')	-	-	-	•	-	-	-	-	-	•	•

") Note: cable GEAK-2S7-BNC or GEAK-5S7-BNC is needed for connection S7, for devices with cinch connection adapter GAD 1 BNC is necessary. Electrodes are consumption objects. Lifetime under careful treatment: > 2 years; warranty: 12 months

Options:

Longer cable for ¹⁾							
(available cable lengths: 1, 2 and 5 m)							
Longer cable for ²⁾							
(available cable lengths: 1, 2 and 5 m)							
Special designs							
(electrodes with thread, other lengths,							
special applications etc.)							
,							



Diaphragm:

The diaphragm makes the electric connection between reference system and sample. Additionally it should prevent the spoiling of the reference electrolyte by the measured medium.

Ceramic diaphragm

- Porous ceramic rods ensure low leak rates. Application:
- General applications in clean till lightly soiled media.

Joint / movable joint

The roughened surface between the cut glass of the electrode and a cut glass sleeve permits a electrolyte flow of several ml/h.

Application:

low-ion or heavily soiled samples

Pellon diaphragm

glass sleeve A permeable diaphragm made of Pellon texture is used for fast response times and stable measuring values Application: Clean till lightly soiled media.

Reference electrolyte:

The reference electrolyte offers a constant voltage of the reference system and makes the electrical connection between sample and reference electrode.

Liquid electrolyte

Mainly 3 mol KCl is used. Liquid electrolytes offer fast response times in general and can be replaced if contaminated.

Gel electrolyte

The electrolyte is solidified for low-maintenance electrodes able to measure irrespective to its position. Under normal measurement conditions no noticeable electrolyte leakage is observable.





Pellon strap



ger / EASYBus

ransmitter

emperature probe

range