

## PH ELECTRODES



	GE 100	GE 101	GE 104	GE 108	GE 114	GE 117	GE 120	GE 125	GE 126	GE 151	GE 171	GE 173
<b>Measuring range</b>	0 ... 14 pH 0 ... 80 °C	2 ... 11 pH 0 ... 60 °C	0 ... 14 pH 0 ... 80 °C	0 ... 14 pH 0 ... 80 °C	0 ... 14 pH 0 ... 60 °C	0 ... 14 pH 0 ... 80 °C	0 ... 14 pH 0 ... 60 °C	0 ... 14 pH 0 ... 70 °C	0 ... 14 pH -5 ... +80 °C	0 ... 14 pH 0 ... 80 °C	0 ... 14 pH 0 ... 140 °C	0 ... 14 pH 0 ... 80 °C
<b>Conductivity</b>	>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	>100 µS/cm	>50 µS/cm
<b>Temperature measuring</b>	no	no	no	no	no	integr. Pt1000 4 mm banana	no	integr. Pt1000 4 mm banana	no	no	no	no
<b>Water-proof</b>	no	no	no	no	optional	no	no	ja	no	no	no	no
<b>Pressure resistant</b>	no	no	no	6 bar	no	6 bar	no	1 bar	5.5 bar	no	10 bar	6 bar
<b>Cable</b>	1 m <sup>1)</sup>	1 m <sup>1)</sup>	1 m <sup>1)</sup>	2 m <sup>1)</sup>	1 m	2 m <sup>2)</sup>	1 m	2 m	5 m	1 m <sup>1)</sup>	ohne	1 m <sup>1)</sup>
<b>Electrolyte</b>	3 mol/l KCl	3 mol/l KCl	3 mol/l KCl	gel electrolyte	gel electrolyte	gel electrolyte	gel electrolyte	gel electrolyte	gel electrolyte	3 mol/l KCl	gel electrolyte	gel electrolyte
<b>Diaphragm</b>	2 x ceramic	2 x ceramic	moving joint	2 x ceramic	1 x Pellon	2 x ceramic	2 x ceramic	1 x ceramic	2 x ceramic	1 x ceramic	2 x ceramic	joint
<b>Thread</b>	without	without	without	PG 13.5	without	PG 13.5	without	without	1/2" NPT	without	PG 13.5	PG 13.5
<b>Electrode shaft</b>	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	ABS Ø 26.4 mm x 147 mm	glass, Ø 12 mm x 120 mm	glass, Ø 12 mm x 120 mm	glass, Ø 12 mm x 120 mm
<b>Features</b>	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)	extremely low- maintenance	chemicals- resistant glass shaft	for extreme conditions, sterilizable, autoclavable	for process chemistry, bio-che- mistry, alkali- resistant
<b>Connection:</b>												
<b>BNC</b>												
Art. no.	600704	600693	602063	600713	604701	600730	600698	600731	610987	600727	-	600735
<b>S7*)</b>												
Art. no.	-	-	-	606089	-	-	-	-	-	-	606375	606572

\*) Note: cable GEAK-257-BNC or GEAK-557-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 <sup>1)2)</sup>**

(available cable lengths: up to 5 m)

**Special designs**

(electrodes with thread, other lengths, special applications etc.)

**Accessories and spare parts:****Kabel-BNCM/BNCF**

Art. no. 606158

Extension cables for electrodes with BNC connector, Cable length: 3 m

**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:**

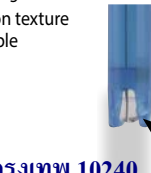
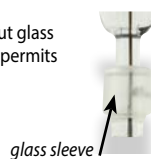
low-ion or heavily soiled samples

**Pellon diaphragm**

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/l 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.

**Electrodes with S7 connection:**

The electrodes are offered with an S7 industrial screw plug fitted, also known as industrial-S8 Plug head. In contrast to S7 lab plug head this one is for direct installation in fittings with PG 13.5 suitable thread.

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