PH ELECTRODES



*) Note: For the S7 connection, the GEAK-2S7-BNC or GEAK-5S7-BNC cable is required, for devices with a cinch connection the GAD 1 BNC adapter is also required. Electrodes are consumables. Service life with careful handling:> 2 years/guarantee: 12 months

OPTIONS:

Item No

Longer cables for 1) 2)

(available cable lengths up to 5 m)

Special designs

(Electrode with thread, special lengths special applications, etc.)

ACCESSORIES AND SPARE PARTS:

Cable BNCM/BNCF

Item No. 606158

Extension cable for electrodes with BNC connection, cable length: 3 m



S7 connection on the electrode shaft

DIAPHRAGM:

606089

The membrane establishes the electrical connection between the reference system and the sample. At the same time, it should prevent the medium to be measured from contaminating the reference electrolyte.

Ceramic membrane

Porous ceramic rods are inserted to allow low outflow rates. **Application:** general applications in clean to slightly dirty media

Joint/movable cut

The roughened surface between the cut glass of the electrode and the glass sleeve enables an electrolyte flow of several mI/h.

Application: low-ion and heavily soiled samples

Pellon membrane

A Pellon tissue is inserted.
The permeable membrane enables fast response times and stable measured values.

Application is close to clickthy solid modia.

Application: in clean to slightly soiled media

REFERENCE ELECTROLYTE:

The reference electrolyte enables a constant voltage in the reference system and establishes the electrical connection between the membrane and the reference electrode.

606375

606572

Liquid electrolyte

3 mol/I KCl is mainly used here. Liquid electrolytes usually enable a faster response time and can be replaced if they are dirty.

Gel electrolyte

Ceramic rod

Glass sleeve

This is where the electrolyte is solidified in order to reach low-maintenance electrodes that allow a short-term measurement regardless of the position. No noticeable leakage of electrolyte can be observed under normal measuring conditions.

ELECTRODES WITH S7 CONNECTION:

The electrodes offered are equipped with an S7 industrial screw plug head, which is also known as the S8 industrial screw plug head. In contrast to the S7 laboratory plug head, this is suitable for direct installation in fittings with PG 13.5 thread.



AREAS OF APPLICATION ELECTRODES

APPLICATION	GE 100	GE 101	GE 104	GE 108	GE 114	GE 117	GE 120	GE 125	GE 126	GE 151	GE 171	GE 173	GR 105	GR 175
Sewage									•			•		
Aquarium water	•		•	•	•	•			•	•			•	•
Soil testing		•												
Emulsions		•	•											
Field measurements				•	•	•		•					•	
Fish farming	•		•	•	•	•		•	•	•			•	•
Galvanic baths												•		•
Beverages								•		•		•	•	•
Low-ion media			•									•		
Cosmetics			•											
Food samples		•					•							
Sea water	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Online measurement											•	•		•
Process chemistry										•	•	•		•
Swimming pool water	•			•	•	•		•	•			•	•	•
Suspensions		•	•											•
Drinking water	•		•	•	•	•		•	•			•	•	•
Water-based lacquers			•									•		

Note: The information provided is a general recommendation. It must be checked which electrodes are suitable for the respective area of application.

REDOX ELECTRODES



GR 105-BNC *Item No. 607798*Redox electrode with BNC connection



GR 175-BNC *Item No. 607801*Redox electrode, pressure-resistant, BNC connector

GR 175-S7 *Item No. 607802*Redox electrode, pressure-resistant, S7 plug head, without connection cable¹

^{*)} Note: For the S7 connection, the GEAK-2S7-BNC or GEAK-5S7-BNC cable is required, for devices with a cinch connection the GAD 1 BNC adapter is also required. Electrodes are consumables. Lifespan with careful handling: >2 years/Warranty: 12 months

TECHNICAL SPECIFICATIONS:	GR 105	GR 175					
Measured variable:	Redox						
Measuring range:	\pm 2000 mV, 080 °C						
Conductivity:	> 100 μS/cm						
Temperature measurement:	No						
Waterproof:	No						
Pressure resistant:	No	6 bar					
Cable:	1 m 1)	without/1 m					
Electrolyte:	3 mol/I KCL	Gel electrolyte					
Diaphragm:	2 x ceramics	1 x ceramic					
Metal electrode:	Platinum dome Ø 5 mm						
Thread:	without	PG 13.5					
Electrode shaft:	Tyril, Ø 12 mm x 120 mm	Glass, Ø 12 mm x 120 mm					
Min. immersion depth:	15 mm						
Scope of delivery:	Redox electrode, operating instructions						
OPTIONS:							
Longer cables for 1) 2)	- t- [\						

EQUIPMENT:

GRP 100

Item No. 601424 Redox test solution 220 mV, 100 ml

(available cable lengths up to 5 m)

