

APPLICATION AREAS: ELECTRODES

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

Note: The set information are to provide general recommendations. It needs to be checked, which electrodes for each area of application are suitable.

ORP ELECTRODES



GR 105-BNC

Art. no. 607798
ORP electrode with BNC connection

GR 105-Cinch

Art. no. 607797
ORP electrode with Cinch connection



GR 175-BNC

Art. no. 607801
ORP electrode with BNC connection

GR 175-S7

Art. no. 607802
ORP electrode incl. S7 connector -without connecting cable^{*)}

Specifications:	GR 105	GR 175
Measuring unit:		ORP
Measuring range:		±2000 mV, 0 ... 80 °C
Conductivity:		>100 µS / cm
Temperature measurement:		no
Water-proof:		no
Pressure resistant:	no	6 bar
Cable:	1 m ¹⁾	without / 1 m
Electrolyte:	3 mol / l KCL	Gel-Elektrolyt
Diaphragm:	2 x ceramic	1 x ceramic
Metal electrode:		Platin 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

Minimal depth of immersion: 15 mm
Scope of supply: ORP electrode, manual

Options:

Longer cable for¹⁾²⁾
(available cable lengths: up to 5 m)

Accessories:

GRP 100
Art. no. 601424
ORP test solution (220 mV at 25 °C), 100 ml

ELECTRODES - ACCESSORIES

Buffer capsules and buffer solutions:

GPH 4,0 / 5 Art. no. 602614
Buffer capsules (5 pieces), pH 4.0

GPH 4,0 / 10 Art. no. 602615
Buffer capsules (10 pieces), pH 4.0

GPH 7,0 / 5 Art. no. 602616
Buffer capsules (5 pieces), pH 7.0

GPH 7,0 / 10 Art. no. 602617
Buffer capsules (10 pieces), pH 7.0

GPH 10,0 / 5 Art. no. 602618
Buffer capsules (5 pieces), pH 10.0

GPH 10,0 / 10 Art. no. 602619
Buffer capsules (10 pieces), pH 10.0

GPH 12,0 / 5 Art. no. 602620
Buffer capsules (5 pieces), pH 12.0

GPH 12,0 / 10 Art. no. 602621
Buffer capsules (10 pieces), pH 12.0

All buffer capsules are traceable to NIST standards and have ±0.02 pH at 25 °C.

PHL 4 Art. no. 601369
ready-to-use buffer solution (pH 4.01 / 25 °C), 250 ml

PHL 7 Art. no. 601371
ready-to-use buffer solution (pH 7.00 / 25 °C), 250 ml

PHL 10 Art. no. 601373
ready-to-use buffer solution (pH 10,01 / 25 °C), 250 ml

KCL 3 M Art. no. 602477
3 mol KCl electrolyte for refilling and storage (fill into protective cap) of electrodes with 3 mol KCl electrolyte, injection bottle, 100 ml

CaCl Art. no. 603254
1000 ml, solution for measuring the pH value of soil

GRL 100 Art. no. 601422
Pepsin cleaning solution, 100 ml

Accessories and spare parts:

GEAK-2S7-BNC
Art. no. 601996
Adapter cable S7-BNC, 2 m

GEAK-5S7-BNC
Art. no. 601998
Adapterkabel S7-BNC, 5 m

VD120
Art. no. 601380
Pricker for insertion electrode GE 101



GAD 1 BNC
Art. no. 601382
Adapter to connect electrodes with Cinch plug to devices with BNC socket.

GPF 100
Art. no. 601417
Plastic wide mouth bottle, 100 ml

GAK 1400
Art. no. 603523
Working and calibration set; GPH 4.0, GPH 7.0, GPH 10.0 (5 capsules of each type); 3 x GPF 100; 1 x KCL3M; 1 x GRL 100

GWA1Z
Art. no. 602914
Thread adapter PG13.5 to G1", plastic



PG 13.5
Art. no. 603205
Plug-on thread adapter for pressure-less use, for any electrode



GWA 11 PG
Art. no. 605379
Thread adapter from PG11 external thread to PG 13.5 internal thread incl. sealing and PG11 counter nut, material: polyamide, fiber glass reinforced, O-ring: NBR, temperature range: -10 ... +100 °C



*) 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