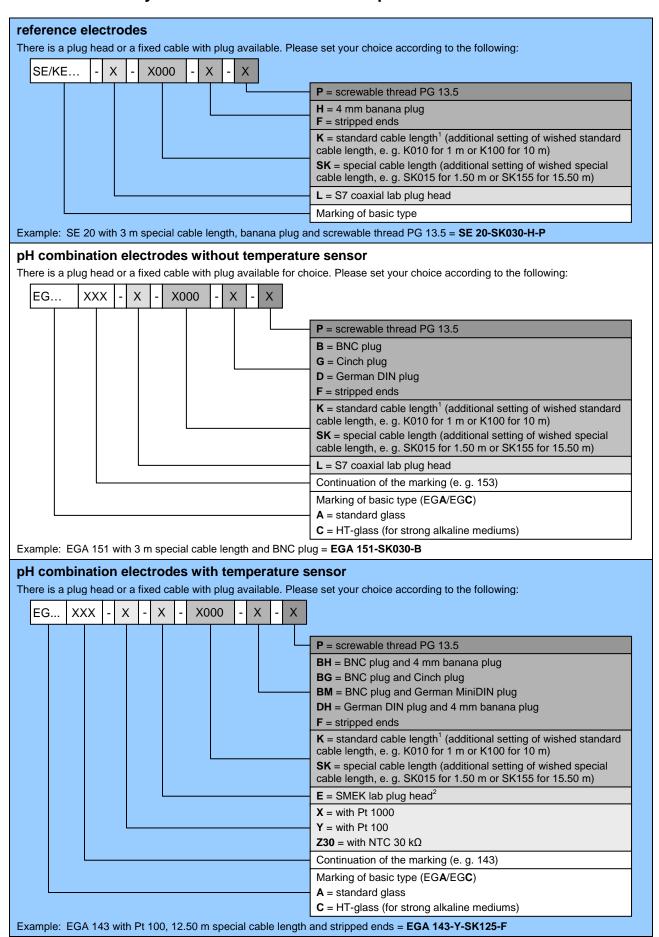




Meinsberg Electrodes

for Laboratory and Process

Order key for reference electrodes and pH combination electrodes



¹ The following standard cable lengths are available: 1 m, 2 m, 5 m, 10 m and 15 m

² "SMEK" is another description for "SixPlug".

1. Electrode selection table for application in laboratory and process (pH, redox, conductivity, oxygen and chlorine)

	aquariums	aqueous solutions	biotechnology (fermenter)	cosmetics	drinking water	drinks	electroplating	field measurements	high pH values	low ionic mediums
EGA 121	•	•								
EGA 131	•									
EGA 133	•							•		
EGA 140						•				
EGA 141						•				
EGA 142	•							•		
EGA 143					•	•				
EGA 150		•								
EGA 151	•	•				•				
EGA 153									•	•
EGA 161				•	•					•
EGA 173					•	•	•			
EGA 184										
EGA 186										
EGA 233							•			
EGA 81										
EGC 151									•	
EGC 151 I/S									•	•
EGP 150										
EGV 150			•							
OGA 201										
EMC 133	•							•		
EMC 173		•			•	•	•			
EMC 30										
EMC 33		•				•	•			
LTC 0,35/23								•		
LTC 1/23	•					•		•		
LTG 0,1/23					•					•
LTG 1/23		•			•	•				
LVV 0,1/23					•					•
MF 39										
MF 39-T										
MF 41	•				•			•		
	<u> </u>		1			 I	 I		 I	
CL 4					•					•
CS 2, CP 2					•					_
MCL 10			l .		•	l	l		l	<u> </u>

2. Technical data of pH- and redox combination electrodes

All combination electrodes which are shown in the following table are equipped with a Ag/AgCI reference electrode.

pH combination electrodes

type	shaft material	shaft length (standard) in mm	shaft diameter (mm)	shaft diameter below (mm)	temperature sensor	membrane shape	reference electrolyte (KCI concentration)
EGA 121	glass	120	12	12	yes	cylinder	fluid (3 M)
EGA 131	plastic	120	12	12	no	ball	fluid (3 M)
EGA 133	plastic	120	12	12	no	cylinder	gel (3 M)
EGA 140	glass	120	12	12	yes	cylinder	gel (3 M)
EGA 141	glass	120	12	12	yes	cylinder	fluid (3 M)
EGA 142	plastic	120	12	12	yes	cylinder	gel (3 M)
EGA 143	glass	120	12	12	yes	cylinder	gel (3 M)
EGA 150	glass	120	12	12	no	cylinder	gel (3 M)
EGA 151	glass	120	12	12	no	cylinder	fluid (3 M)
EGA 153	glass	120	12	12	no	cylinder	gel (3 M)
EGA 161	glass	120	12	12	no	cylinder	fluid (3 M)
EGA 173	glass	120	12	12	no	cylinder	gel (3 M)
EGA 184	glass	120	12	6	no	spear	gel (3 M)
EGA 186	glass	170	12	6	no	cylinder	fluid (3 M)
EGA 233	plastic	120	12	12	no	cylinder	gel (3 M)
EGA 81	glass	120	12	12	no	spear	fluid (3 M)
EGC 151	glass	120	12	12	no	cylinder	fluid (3 M)
EGC 151 I/S	glass	120	12	12	no	cylinder	fluid (saturated)
EGP 150	glass	120	12	12	no	cylinder	gel (3 M)
EGV 150	glass	120	12	12	no	cylinder	gel (3 M)
OGA 201	glass	120	12	17	no	flat	fluid (3 M)

redox combination electrodes

type	shaft material	shaft length (standard) in mm	shaft diameter (mm)	metall electrode	reference electrolyte (KCI concentration)
EMC 133	plastic	120	12	platinum disc	gel (3 M)
EMC 173	glass	120	12	platinum disc	gel (3 M)
EMC 30	glass	120	12	platinum disc	fluid (3 M)
EMC 33	glass	120	12	platinum disc	gel (3 M)

EGA 141 EGA 142 EGA 161 • pH combination electrode for • pH combination electrode for pH combination electrode for pocket meters pocket meters measurements in low ionic mediums and cosmetics • integrated temperature sensor • integrated temperature sensor • refillable electrolyte • refillable electrolyte • low maintenance robust plastic shaft with integrated pH membrane • glass shaft can be cleaned very • flexible sleeve junction protection

EGA 142-X-E

EGA 141-X-E

EGA 141	EGA 142	EGA 161
glass, Ø 12 mm	plastic, Ø 12 mm	glass, Ø 12 mm
120 mm	120 mm	120 mm
Pt 1000 or Pt 100 or	Pt 1000 or Pt 100 or	-
NTC 30 kΩ	NTC 30 kΩ	
cylinder	cylinder	cylinder
Ag/AgCl	Ag/AgCl	Ag/AgCl
fluid (3 M)	gel (3 M)	fluid (3 M)
2 x ceramic	2 x ceramic	flexible sleeve junction
7.0 ± 0.3	7.0 ± 0.3	7.0 ± 0.3
0 14	0 14	0 14
-5 80 °C	-5 80 °C	-5 80 °C
22 mm	15 mm	32 mm
aquarium water, surface water, swimming pools, waste water, environmental analysis	field measurements, aquarium water, surface water, swimming pools, waste water, environmental analysis	low ionic mediums, cosmetics
SMEK lab plug head, fixed cable	SMEK lab plug head, fixed cable	S7 coaxial lab plug head, fixed cable
Refer to the left book cover!	Refer to the left book cover!	Refer to the left book cover!

EGA 161-L

The pH combination electrode EGA 141 is also available with HT-glass (EGC 141). EGC 141 can be used in hot (100 °C) mediums with extreme pH values.

All electrodes can be configured according to plug connector, cable length, plug and thread PG 13.5 (Refer to the left book cover!).

The connection cable for the S7 coaxial lab plug head is illustrated on page 16. The connection cable for the SMEK lab plug head is illustrated on page 16 and 30.