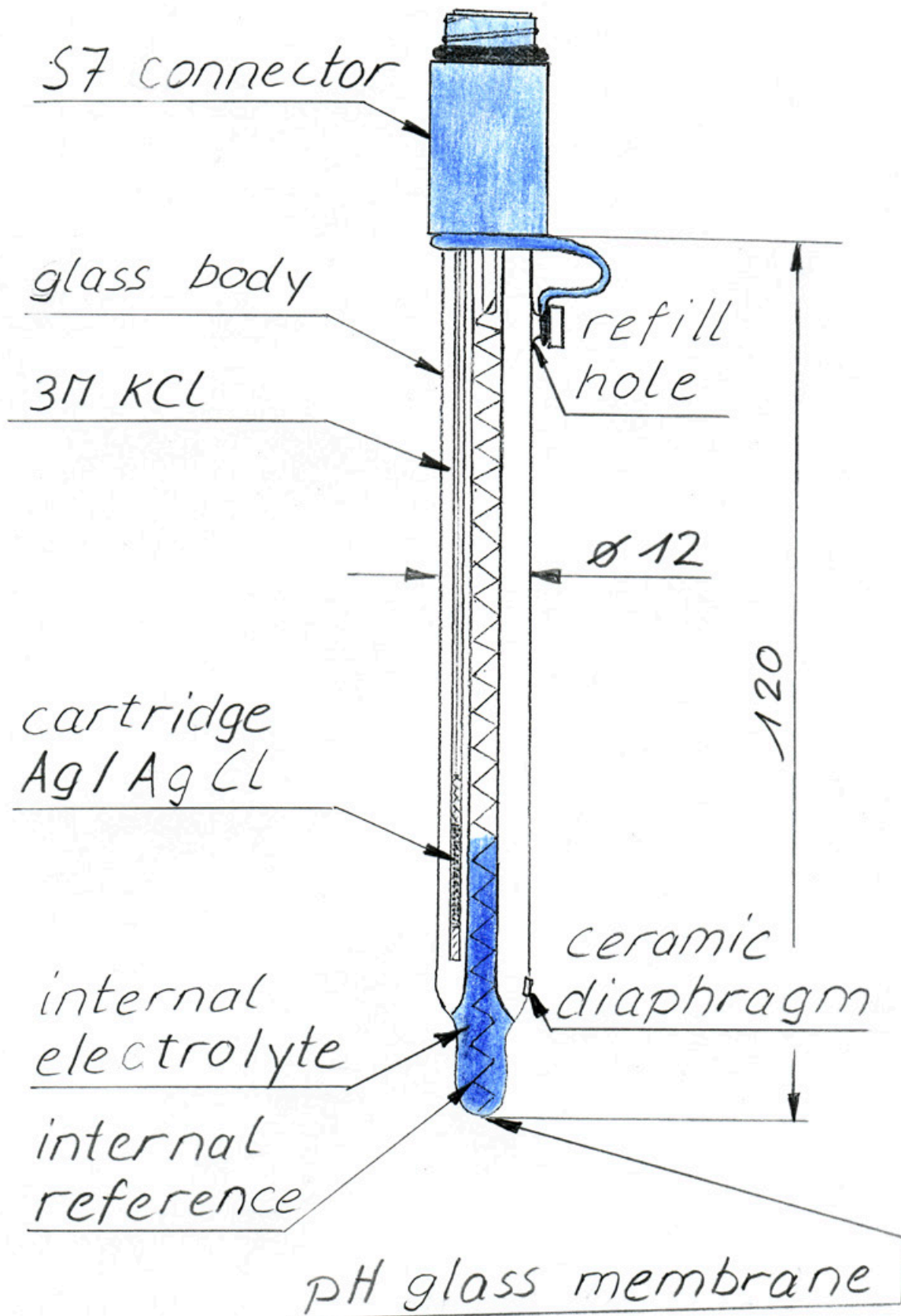
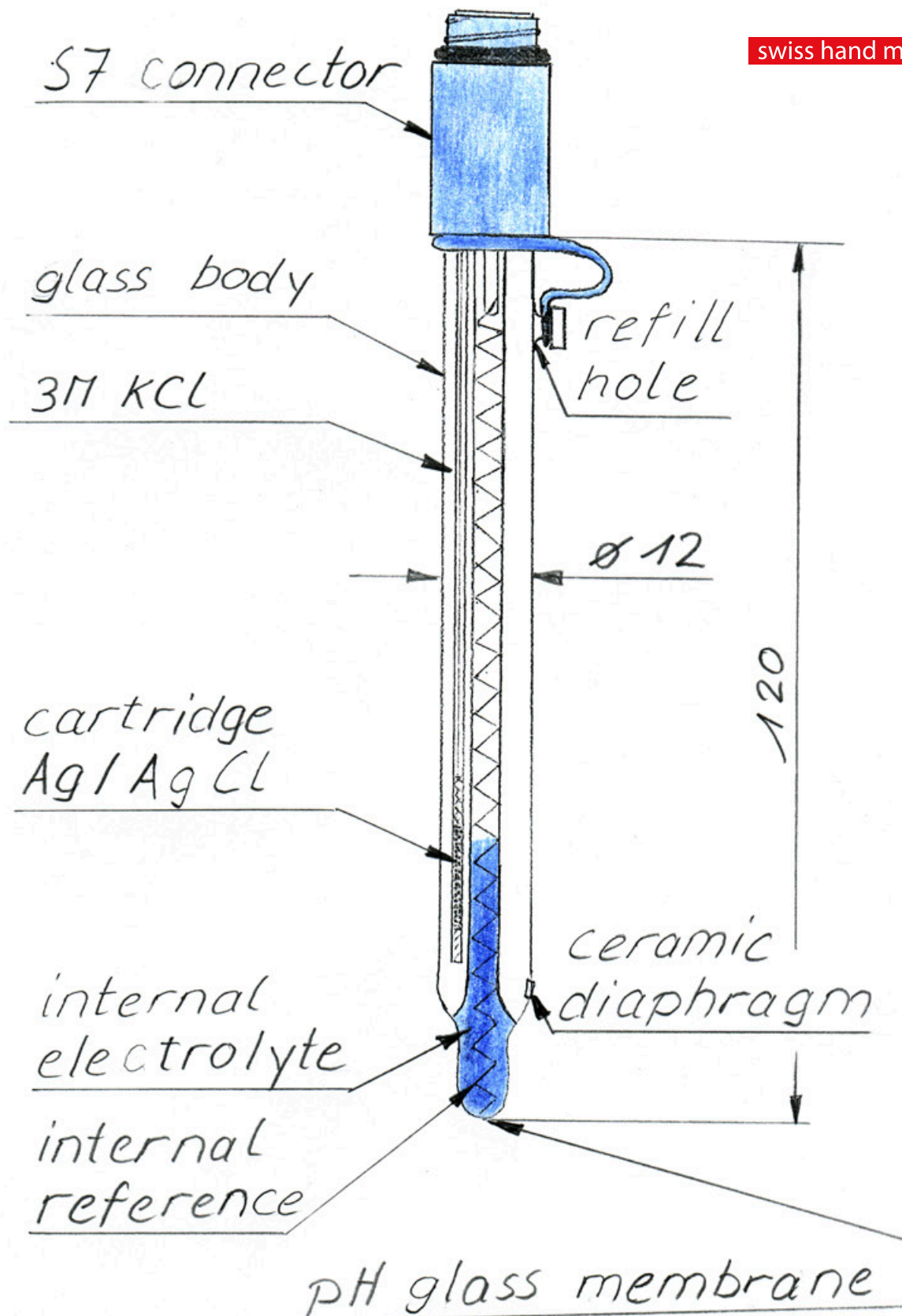




Electrodes

Electrodes



Field of application

	Gel	Polymer	Polymer Tip	Standard	Polymer Plast/201T	Standard HA	Flat	Standard HF	Food	2 Pore Slim	2 Pore	2 Pore F	Food Slim	Semimicro	Micro	Micro P	Flow
aqueous Emulsionen		•	•	•					•								•
aqueous Suspensionen		•	•	•					•								•
Bread- Pasta			•						•	•	•	•	•				
Brine	•	•	•	•	•				•								•
Butter									•	•	•	•	•				
Cheese										•	•	•	•				
Cosmetics		•	•	•		•			•								•
Cream		•	•						•								•
Detergents	•	•	•	•	•	•			•								•
Fruit juice		•	•	•					•								•
Fruits and Vegetables										•	•	•	•				
Galvanic exhaust		•	•			•											•
Jam		•	•						•		•						•
Leather							•										
Mayonnaise									•		•						•
Meat									•	•	•	•	•				
Milk									•	•	•	•	•				
Paint (waterbased)		•	•	•					•								•
Paint				•					•								•
Sample containing proteins		•	•						•		•		•			•	
Sample high alkalinity						•											
Sample high temperature*				•		•			•								
Sample small volume							•							•	•	•	
Sample with hydrofluoric Acid								•									
Semi-aqueous suspensions									•								•
Soap liquid		•	•	•					•								•
Soil			•							•	•	•	•				•
Solutions low-ionic strength																	•
Surfaces							•										
Titration				•					•								•
Titration, non aqueous																	•
TRIS-buffer				•													•
Viscous samples		•	•						•								•
Waste and Sewage		•	•		•	•											•
Water, distilled									•								•
Water, drinking	•	•	•	•	•				•								•
Wine		•	•	•					•								•
Yoghurt		•	•						•	•	•	•	•				•

* short time 100 °C

Electrodes for general laboratory application

GEL

Shaft Material	Glass
Connector	S7 Head
Electrolyte	Gel
Diaphragm	Ceramic
Diameter	12 mm
Length	120 mm
pH-measuring range	0...14
Temperature range	-10...60 °C



Model no. 1000203

GEL

POLYMER

Shaft Material	Glass
Connector	S7 Head
Electrolyte	Polymer
Diaphragm	Open pore
Diameter	12 mm
Length	120 mm
pH-measuring range	0...14
Temperature range	-10...80 °C



Model no. 1000223

POLYMER

POLYMER TIP

Shaft Material	Glass
Connector	S7 Head
Electrolyte	Polymer
Diaphragm	2 x Open pore
Diameter	12 mm
Length	120 mm
pH-measuring range	0...14
Temperature range	-10...80 °C



Model no. 1000443

POLYMER TIP

STANDARD

Shaft Material	Glass
Connector	S7 Head
Electrolyte	3M KCl
Diaphragm	Ceramic
Diameter	12 mm
Length	120 mm
pH-measuring range	0...14
Temperature range	-10...100 °C



Model no. 1000363

STANDARD

More standard versions

STANDARD HA

like Standard,
minimal Alkali-error



Model no. 1000423

STANDARD HA

STANDARD HF

like Standard,
suitable for samples with HF



Model no. 1000433

STANDARD HF

More versions with fix cable or temperature probe on demand

Electrodes for general laboratory application

POLYMER PLAST

Shaft Material	Epoxy
Connector	S7 Head
Electrolyte	Polymer
Diaphragm	1 x Ceramic and 1 x open pore
Diameter	12 mm
Length	120 mm
pH-measuring range	0...14
Temperature range	0...60 °C



Model no. 1000493

POLYMER PLAST

POLYMER PLAST BNC

Connector	Fix cable BNC
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Model no. 1000503

POLYMER PLAST BNC

POLYMER PLAST DIN

Connector	Fix cable DIN
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Model no. 1000513

POLYMER PLAST DIN

201T

Shaft Material	Epoxy
Connector	Fix cable
Electrolyte	Gel
Diaphragm	1 x Ceramic and 1 x open pore
Diameter	12 mm
Length	120 mm
pH-measuring range	0...14
Temperature range	0...60 °C
Temperature probe	yes, 30 kΩ with Cinch plug



Model no. 1002002

201T

FLAT

Shaft Material	Glass
Connector	S7 Head
Electrolyte	Polymer
Diaphragm	Teflon with 3 x open pore
Diameter	12 mm
Length	120 mm
pH-measuring range	0...14
Temperature range	0...60 °C



Model no. 1000413

FLAT

FLOW

Shaft Material	Glass
Connector	S7 Head
Electrolyte	3M KCl
Diaphragm	Teflon Sleeve
Diameter	12 mm
Length	120 mm
pH-measuring range	0...14
Temperature range	-10...80 °C



Model no. 1000373

FLOW

More versions with fix cable or temperature probe on demand

Electrodes for general laboratory application

SEMI MICRO

Shaft Material	Glass
Connector	S7 Head
Electrolyte	3M KCl
Diaphragm	Ceramic
Diameter	12 mm / 6 mm
Length	100 mm
pH-measuring range	0...14
Temperature range	0...100 °C



MICRO

Shaft Material	Glass
Connector	S7 Head
Electrolyte	3M KCl
Diaphragm	Ceramic
Diameter	12 mm / 3 mm
Length	60 mm
pH-measuring range	0...14
Temperature range	0...100 °C



MICRO P

like MICRO,
Electrolyte Glycerin KCL



Food Measurements Electrodes

FOOD

Shaft Material	Glass
Connector	S7 Head
Electrolyte	Glycerin KCL
Diaphragm	3 x Ceramic
Diameter	12 mm
Length	120 mm
pH-measuring range	0...14
Temperature range	-10...100 °C



2 PORE

Shaft Material	Glass
Connector	S7 Head
Electrolyte	Polymer
Diaphragm	2 x Open pore
Diameter	12 mm / 6 mm
Length	35 mm
pH-measuring range	0...14
Temperature range	0...+60 °C



More versions 2 PORE

2 PORE SLIM

like 2 PORE,
Diameter 4.5 mm



More versions 2 PORE

2 PORE F

like 2 PORE, Shaft Material POM / Glass



Model no. 1000293

2 PORE F

2 PORE T - Fix cable

like 2 PORE, T-probe NTC 30 kΩ



Model no. 1000323

2 PORE T - Fix cable

2 PORE STEEL T - Fix cable

like 2 PORE, T-probe NTC 30 kΩ

Shaft Glass/stainless steel, Length 50 mm



Model no. 1000313

2 PORE STEEL T - Fix cable

2 PORE K

Shaft Material	Glass / Steel
Connector	S7 Head
Electrolyte	Polymer
Diaphragm	2 x Open pore
Diameter	12 mm / 4.5 mm
Length	35 mm
pH-measuring range	0...14
Temperature range	0...+60 °C



Model no. 1000303 - complete with knife

1000343 - without knife

1000353 - Replaceable knife

2 PORE K



FOOD SLIM

Shaft Material	Glass
Connector	S7 Head
Electrolyte	Glycerin KCL
Diaphragm	Ceramic
Diameter	12 mm / 6 mm
Length	25 mm
pH-measuring range	0...14
Temperature range	0...+100 °C



Model no. 1000243

FOOD SLIM

Redox Electrodes

STANDARD ORP

Shaft Material	Glass
Connector	S7 Head
Electrolyte	3M KCl
Diaphragm	3 x Ceramic
Diameter	12 mm
Length	120 mm
Range	+/- 2,000 mV
Temperature range	-10...100 °C



Model no. 2000233

STANDARD ORP

PLAST ORP

Shaft Material	Epoxy
Connector	S7 Head or fix cable
Electrolyte	Gel
Diaphragm	Ceramic
Diameter	12 mm
Length	120 mm
Range	+/- 1,000 mV
Temperature range	0...60 °C



Model no. 2000663 - with S7 Head

2000673 - with fix cable BNC

PLAST ORP

Conductivity cells

VP 8 – VPT 1

Shaft / Plate	Glass / Platin
Cell constant	1 cm ⁻¹
Diameter	12 mm
Length	120 mm
Range	10 µS...10 mS
Temperature range	0...80 °C



Model no. 3004062 - VP 8, w/o T-probe
3003352 - VPT 1, with T-probe

VP 8 - VPT 80/1

VPT 01

Shaft / Plate	PVC / Steel
Cell constant	0,1 cm ⁻¹
Diameter	12 mm
Length	120 mm
Range	0.1 µS...1 mS
Temperature range	0...60 °C



Model no. 3004012 - VPT 01, with T-probe

VPT 51/01

VPT 10

Shaft / Plate	Glass / Platinum
Cell constant	10 cm ⁻¹
Diameter	12 mm
Length	120 mm
Range	100 µS...200 mS
Temperature range	0...80 °C



Model no. 3004072 - VPT 10, with T-probe

VPT 80/10

EPT1

Schaft	Epoxy
Elektrodes	2 Graphit-Elektrodes
Cell constant	1 cm ⁻¹
Diameter	12 mm
Length	120 mm
Range	10 µS...100 mS
Temperature range	0...60 °C



Model no. 3003382 – EPT1 with T-probe

EPT1

EPT4

Shaft Material	PVC
Electrodes	4 Graphit-Electrodes
Cell constant	0.5 cm ⁻¹
Diameter	12 mm
Length	120 mm
Range	1 µS...200 mS
Temperature range	0...60 °C



Model no. 3003362 - EPT4 with T-probe,
for EC-45 and EC-27 cond

EPT4

2301T

Shaft / Plate	Epoxy / Platinum
Cell constant	1 cm ⁻¹
Diameter	12 mm
Length	120 mm
Range	10 µS...100 mS
Temperature range	0...60 °C



Model no. 3004002 - 2301T, with T-probe

2301T

1000203	Gel	pH-electrode, gel-filled with ceramic diaphragma
1000223	Polymer	pH-electrode, polymer-filled with open pore diaphragma
1000443	Polymer Tip	pH-electrode, polymer-filled with double open pore diaphragma
1000363	Standard	pH standard electrode with ceramic diaphragma
1000423	Standard HA	like standard, minimal Alkali error
1000433	Standard HF	like standard, for samples with HF
1000263	STANDARD BNC	like standard, with fix cable BNC
1000273	STANDARD DIN	like standard, with fix cable DIN
1000473	STANDARD T - BNC	like standard, with fix cable BNC and Temperature sensor
1000463	STANDARD T DIN	like standard, with fix cable DIN and Temperature sensor
1000493	Polymer Plast	Polymer electrode with 1 ceramic and 1 x open pore diaphragma, epoxy body
1000503	Polymer Plast BNC	like Polymer, with fix cable BNC
1000513	Polymer Plast DIN	like Polymer, with fix cable DIN
1002002	201T	pH-electrode with epoxy body, temperature sensor and fix cable BNC
1002042	201 T DIN	pH-electrode with Temperature sensor and fix DIN-cable
1000413	Flat	pH-electrode for surface measurements, 3-hole diaphragma with Teflon
1000373	Flow	pH-electrode for viscous samples and low ion media, Teflon sleeve diaphragma
1000383	Semi-Micro	pH-electrode for test tube measurements
1000213	Micro	pH-electrode for small volume samples
1000253	Micro P	pH-electrode for small volume samples with protein, Electrolyte Glycerin
1005223	GEL Plast BNC	pH-electrode with epoxy body, fix BNC-cable and double diaphragma
1000393	FOOD	pH-electrode with Glycerin KCl electrolyte and 3 ceramic diaphragm
1000333	2 PORE	pH-electrode with 2 open pore diaphragma
1000393	FOOD	pH-electrode with Glycerin KCl electrolyte and 3 ceramic diaphragm, S7- Head
1000753	FOOD T-BNC	pH-electrode with Glycerin KCl electrolyte, 3 ceramic diaphragm, T-sensor and fix BNC-cable
1000333	2 PORE	pH-electrode with 2 open pore diaphragma, S7-Head
1000283	2 PORE SLIM	like 2 PORE, with small surface Ø 4,5mm, S7-Head
1000293	2 PORE F	like 2 PORE, shaft POM/Glass, S7-Head
1000703	2 PORE F T-BNC	pH-electrode with double hole diaphragma, Ø 6 mm, T-sensor and fix BNC-cable
1000323	2 Pore T	like 2 PORE, with temperature sensor 30 KΩ, fix cable BNC
1000313	2 Pore Steel T	like 2 PORE, shaft Steel/Glass, with temperature sensor and fix cable BNC
1000303	2 PORE K complete	like 2 PORE T, with knife, S7-Head
1000343	2 PORE K	like 2 PORE K without knife
1000353	Knife	Replacement knife for 2 PORE K
1000243	Food Slim	pH-electrode with Glycerin KCl electrolyte and 2 ceramic diaphragm, S7-Head

DHS pH - Standard Electrodes

1100103	201T DHS	pH-electrode with epoxy body, temperature sensor and fix cable BNC, DHS-function
1100123	STANDARD T - BNC DHS	pH standard electrode with ceramic diaphragma, fix BNC-cable and Temperature sensor, DHS-function
1100113	2 Pore T DHS	pH-electrode with 2 open pore diaphragma, Temperature sensor and fix BNC-cable, DHS-function
1100133	Flow T BNC DHS	pH electrode for low-ion media and viscous samples, with fixed BNC cable and T-probe, DHS function
1100143	2 PORE F T-BNC DHS	pH electrode with double hole diaphragm, Ø 6 mm, shaft POM/glass and T-probe, DHS function

Electrodes for ORP Measurement

2000233	Standard ORP	electrode with platinum ring for ORP/Redox
2000663	Plast ORP	electrode with platinum pin for ORP/Redox
2000673	Plast ORP/BNC	electrode with platinum pin for ORP/Redox, fix cable BNC

Conductivity Cells

3004062	VP8	conductivity cell, cell constant c=1, fix cable BNC
3003352	VPT 80/1	conductivity cell, cell constant c=1, fix cable BNC, temperature sensor
3004012	VPT51/01	conductivity cell, cell constant c=0,1, fix cable BNC, temperature sensor for ultrapure water
3004072	VPT 80/10	conductivity cell, cell constant c=10, fix cable BNC, temperature sensor for sea water
3004002	2301T	conductivity cell, cell constant c=1, fix cable BNC, temperature sensor
3003382	EPT 1	Cond. Cell, cell constant c=1, meas. range 10 µS...100 mS, fix cable BNC, T-sensor
3004002	EPT 4	conductivity cell, cell constant c=0,55, fix Multi-Pin cable, T-Sensor 4-pole conductivity cell, 0.1 µS...1 S, <i>Only for EC-45-cond</i>

Conductivity Standards

800613	Conductivity Standard 84 µS/cm ± 1% / 25 °C, 500 ml bottle
800633	Conductivity Standard 1.413 µS/cm ± 1% / 25 °C, 500 ml bottle
800643	Conductivity Standard 12.880 µS/cm ± 1% / 25 °C, 500 ml bottle
850513	Conductivity Standard 5 µS/cm ± 0.1 / 25 °C, 300 ml bottle with N.I.S.T. certificate
850313	Conductivity Standard 5 µS/cm ± 0.1 / 25 °C, 300 ml bottle with DFM certificate
850303	Conductivity Standard 1.3 µS/cm ± 0.1 / 25 °C, 300 ml bottle with DFM certificate



Conductivity Standards

pH Buffer Solutions

800033	Buffer pH4, ± 0.01 / 25 °C, 250 ml bottle, red
800133	Buffer pH4, ± 0.01 / 25 °C, 500 ml bottle, red
800233	Buffer pH4, ± 0.01 / 25 °C, 5 Liter red
800043	Buffer pH7, ± 0.01 / 25 °C, 250 ml bottle, green
800143	Buffer pH7, ± 0.01 / 25 °C, 500 ml bottle, green
800243	Buffer pH7, ± 0.01 / 25 °C, 5 Liter green
800073	Buffer pH9.21, ± 0.02 / 25 °C, 250 ml bottle, blue
800173	Buffer pH9.21, ± 0.02 / 25 °C, 500 ml bottle, blue
800273	Buffer pH9.21, ± 0.02 / 25 °C, 5 Liter blue
800063	Buffer pH10 ± 0.02 / 25 °C, 250 ml bottle, clear
800163	Buffer pH10 ± 0.02 / 25 °C, 500 ml bottle, clear
800263	Buffer pH10, ± 0.02 / 25 °C, 5 Liter clear



pH-Buffer Solutions

pH Storage Solution

1008013	3M KCl-Solution, 500 ml
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Redox Buffer

800303	250 ml Redox/ORP 200 mV ± 5 mV / 25 °C
800313	250 ml Redox/ORP 475 mV ± 5 mV / 25 °C
800323	500 ml Redox/ORP 475 mV ± 5 mV / 25 °C

DAKKS certified
buffer solutions
are available as well



Printer 1001502

More Accessories

1001733	Cable S7 / BNC 1 Meter
1001743	Cable S7 / DIN 1 Meter
1002012	Temperature sensor NT55
1000112	Elektrode holder
1001502	Printer for EC-36 and EC-45

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