



Lab solutions

PHOENIX
Instrument

Redox

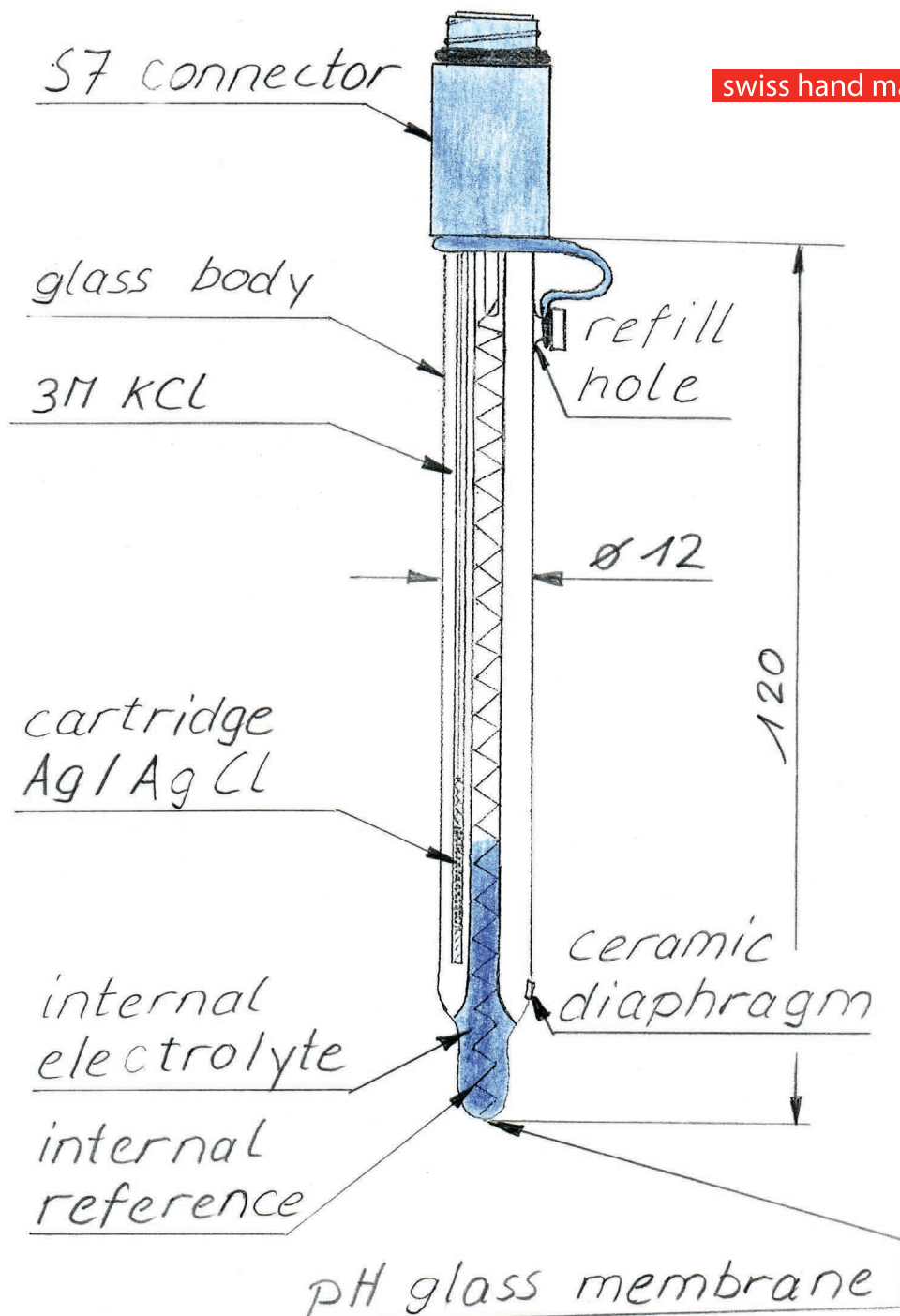
Polymer

pH Electrodes

Conductivity

Food

Laboratory



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



Model no. 1000383

SEMI MICRO

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



Model no. 1000213

MICRO

MICRO P

like MICRO,
Electrolyte Glycerin KCL



Model no. 1000253

MICRO P

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



Model no. 1000393

FOOD

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



Model no. 1000333

2 PORE

More versions 2 PORE

2 PORE SLIM

like 2 PORE,
Diameter 4,5 mm



Model no. 1000283

2 PORE SLIM

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

STANDARD ORP

Shaft Material	Glass
Connector	S7 Head
Electrolyte	3M KCl
Diaphragm	3 x Ceramic
Diameter	12 mm
Length	120 mm
Range	+/- 2000 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	+/- 1000 mV
Temperature range	0...60 °C



Model no. 2000663 - with S7 Head
2000673 - with fix cable BNC

PLAST ORP

Conductivity cells

VP 8 – VPT 80/1

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 80/1, with T-probe

VP 8 - VPT 80/1

VPT 51/01

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 51/01, with T-probe

VPT 51/01

VPT 80/10

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



Model no. 3004072 - VPT 80/10, with T-probe

VPT 80/10

VPT 80/4

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 - VPT 80/4, with T-probe

VPT 80/4

2301T

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



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

2301T



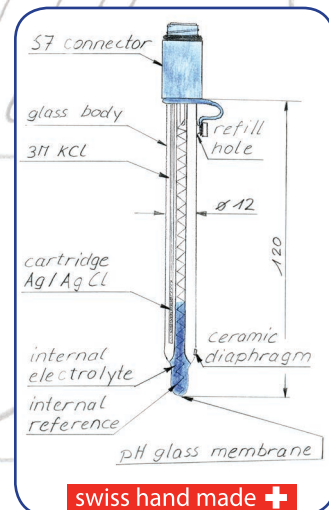
Lab solutions

PHOENIX
Instrument

Buffer solutions

Catalogue no. Description

800033	Buffer pH 4, $\pm 0,01$ / 25 °C, 250 ml bottle, red
800133	Buffer pH 4, $\pm 0,01$ / 25 °C, 500 ml bottle, red
800233	Buffer pH 4, $\pm 0,01$ / 25 °C, 5 Liter, red
800043	Buffer pH 7, $\pm 0,01$ / 25 °C, 250 ml bottle, green
800143	Buffer pH 7, $\pm 0,01$ / 25 °C, 500 ml bottle, green
800243	Buffer pH 7, $\pm 0,01$ / 25 °C, 5 Liter, green
800073	Buffer pH 9,21, $\pm 0,02$ / 25 °C, 250 ml bottle, blue
800173	Buffer pH 9,21, $\pm 0,02$ / 25 °C, 500 ml bottle, blue
800273	Buffer pH 9,21, $\pm 0,02$ / 25 °C, 5 Liter, blue
800063	Buffer pH 10, $\pm 0,02$ / 25 °C, 250 ml bottle, colourless
800163	Buffer pH 10, $\pm 0,02$ / 25 °C, 500 ml bottle, colourless
800263	Buffer pH 10, $\pm 0,02$ / 25 °C, 5 Liter, colourless



Conductivity solutions

Catalogue no. Description

800613	Conductivity standard 84 $\mu\text{S}/\text{cm} \pm 1\%$ / 25°C, 500 ml bottle
800633	Conductivity standard 1.413 $\mu\text{S}/\text{cm} \pm 1\%$ / 25°C, 500 ml bottle
800643	Conductivity standard 12.880 $\mu\text{S}/\text{cm} \pm 1\%$ / 25°C, 500 ml bottle

Redox-buffer

Catalogue no. Description

800303	250 ml Redox/ORP 200 mV $\pm 5\text{mV}$ / 25°C
800313	250 ml Redox/ORP 475 mV $\pm 5\text{mV}$ / 25°C
800323	500 ml Redox/ORP 475 mV $\pm 5\text{mV}$ / 25°C

More Accessories

Catalogue no. Description

1001733	Cable S7/BNC 1 meter
1001743	Cable S7/DIN 1 meter
1002012	Temperature sensor NT55
1000112	Elektrode holder

In addition to Electrodes Phoenix Instrument also offers Rotary Evaporator, Balances, Centrifuges, Liquid Handling, Stirrer, Mixer, Shakers, Incubators and Ovens



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