

pH-Measuring Instruments, Phoenix Instrument

A new line of electrochemistry instruments has been developed, finding the right balance between a state-of-the-art design, innovative ideas in pH and conductivity measurement and easy use. A famous Swiss producer has developed, exclusively for these instruments, a complete laboratory line of pH electrodes for every type of application.

① Portable pH-meter EC-20-pH/EC-25-pH

An elegant and ergonomic case, with a practical soft rubber and IP57 protection, contains the best of technology. A large display (backlight for EC-25-pH) shows all information that you need. All the functional parameters of connected electrode, during measurement or calibration, are constantly checked and inform the operator for easy trouble-shooting. Only 4 keys (6 for EC-25-pH) allow the user to control all functions in an intuitive and easy way.

EC-20-pH / EC-25-pH

- Display of pH/mV and temperature Parameter simultaneously
- Selectable resolution: 0.1/0.01 pH
- Automatic calibration up to 3 points (2 Standard pH-Puffer Sets)
- Manual calibration up to 2 points (user-defined pH-Puffer)
- Stability parameter (Low-Med-High) for high accuracy measurements
- Large Display (backlit on EC-25) with indication of calibration buffers and measurements stability
- Memory with re-call of last calibration and information about electrode life Date and time on EC-25
- Waterproof IP57-protection
- Sturdy carrying case with all accessories
- Software PC-Link

Additionally for EC-25-pH

- GLP
- CAL DUE: set of calibration frequency for high quality of measurements
- Data logger (automatic or manual)
- 500 data sets with date and time
- USB port and software PC-Link to download data (included)

Technical data:

	EC-20-pH	EC-25-pH
Meas. range/resolution:	0 – 14 / 0.1 – 0.01 pH	-2 – 16 / 0.1 – 0.01 pH
Calibration points:	1 to 3	1 to 3
Buffer solutions:	USA, NIST and user defined	
GLP:	—	Yes
Indication of slope and offset:	Yes	Yes, with date and time
CALDUE:	No	Yes
Measuring range:	±1000 mV	±1999 mV
Accuracy:	1 mV	0.1 (± 200) 1 mV
Temperature measuring range:	0 – 100.0°C	-10 – 100.0°C
Resolution/accuracy:	0.1°C / ± 0.5	0.1°C / ± 0.5
Memory:	—	Man/Auto 500 data with time

IP-class:	IP 57	IP 57
Warranty instrument:	5 years	5 years

Article	Order No.
EC-20-pH-0	10 13 74200
Kit without pH electrode, with temperature sensor inside and BNC, colored pH buffer solution, carrying case and accessories	
EC-20-pH-1	10 13 74209
Kit included pH electrode201T, cable S7/BNC, temperature probe NT55, colored pH buffer solution, carrying case and accessories	
EC-25-pH-0	10 13 74250
Kit without pH electrode, with temperature sensor inside and BNC, colored pH buffer solution, carrying case and accessories	
EC-25-pH-1	10 13 74251
Kit included pH electrode201T, cable S7/BNC, temperature probe NT55, colored pH buffer solution, carrying case and accessories	



② Basic bench top pH-meter EC-30-pH

The LCD back light display of the basic meter shows all information that you need about measurement, included icon for stability. Up to 3 point pH calibration with automatic recognition for USA buffers. Icon support for all calibration editing function with alarm electrode diagnostics. Easy to use, very competitive price, easy to calibrate.

- Display pH/mV and Temperature parameters simultaneously
- Resolution: 0.01 pH
- Automatic Calibration up to 3 points
- Indication stability of the measurement with icon
- IP54 rated housing handles splashes
- 3 years meter replacement warranty

Technical data:

Measuring range: 0 – 14 pH / ± 2000 mV
 Accuracy: 0.1/0.01 pH / 1 mV / 0.1°C
 Temperature range: 0 – 100°C
 Calibration points: 1 to 3
 Memory: 25 data
 Power supply: AC/DC adapter 9 V / 300 mA
 Dimensions: 160 × 190 × 70 mm
 Weight: 750 g

Article	Order No.
EC-30-pH-0	10 13 74300
Kit without pH-electrode, with Temperature sensor and BNC-plug, buffer solution pH4 and pH7, electrode holder	
EC-30-pH-1	10 13 74301
Kit with pH-elektrode 201T, cable S7/BNC, Temperature sensor NT55, buffer solution pH4 and pH7, electrode holder	



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③ Professional benchtop pH-meter EC-45-pH

The large color display easy on to read shows all information that you need about measurement, buffers used for calibration, electrodes life, GLP information and instruments memory. Anyone can use this meter easily with its clear menu structure up to 8 languages. Easy to learn. Up to 5 point pH calibration with automatic recognition for USA/NIST/DIN and user buffers. Icon support for all calibration editing function with advanced electrode diagnostics. Easy to calibrate. Only a few keys allow the user to control all functions in an intuitive and easy way.

- Display pH/mV and Temperature parameters simultaneously
- Resolution: 0.1/0.01 pH
- Automatic Calibration up to 3 point automatic recognized for USA/NIST buffers
- Manual-Calibration up to 2 points (User defined pH Buffer)
- Large 2 color display with indication of Calibration Buffers and measurement's stability
- Instrument can be equipped with a magnetic stirrer
- IP54 rated housing handles splashes
- 3 years meter replacement warranty

Technical data:

Measuring range: -2 – 20 pH / ± 2000 mV
 Accuracy: 0.1/0.01/0.001 pH
 Calibration points: 1 to 5
 Buffer recognized: automatic Buffer recognition, DIN, NIST, USA, 5 user defined
 Temperature range: -20 – 120°C
 Accuracy/Resolution Temperature: 0.1/±0.2°C / 0.1/1 mV
 Temperature compensation: manual or automatic
 Memory: 1000 data
 Interface: 2 × USB
 Protection class: IP 54
 Power supply: AC/DC adapter 9 V / 300 mA
 Dimensions: 200 × 220 × 100 mm
 Weight: 950 g

Article	Order No.
EC-45-pH-0	10 13 74450
Kit without pH electrode, with cable S7/BNC, temperature probe NT55, colored pH buffer solution, electrodes arm, power supply and accessories	
EC-45-pH-1	10 13 74451
Complete kit included pH electrode STANDARD, temperature probe NT55, colored pH buffer solution, electrodes arm, power supply and accessories	



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pH electrodes for general applications

Article	Order No.
④ Gel pH electrode, gel-filled with ceramic diaphragm	10 13 71204
⑤ Polymer pH electrode, polymer-filled with open pore diaphragm	10 13 71223
⑥ Polymer Tip pH electrode, polymer-filled with double open pore diaphragm	10 13 71443
⑦ Standard pH standard electrode with ceramic diaphragm	10 13 71363
Standard HA like Standard, minimal Alkali error	10 13 71423
Standard HF like Standard, for samples with HF	10 13 71433
Standard BNC like Standard, with fix cable BNC	10 13 71263
Standard DIN like Standard, with fix cable DIN	10 13 71273
Standard T-BNC like Standard, with fix cable BNC and temperature sensor	10 13 71473
Standard T DIN like Standard, with fix cable DIN and temperature sensor	10 13 71463
Polymer Plast pH electrode, polymer-filled with 1 open pore diaphragm and 1 ceramic diaphragm	10 13 71493
Polymer Plast BNC like Polymer Plast, with fix cable BNC	10 13 71503
Polymer Plast DIN like Polymer Plast, with fix cable DIN	10 13 71513
⑧ 201 T pH electrode with epoxy body, temperature sensor and fix cable BNC	10 13 71022
201 T DIN pH electrode with epoxy body, temperature sensor and fix cable DIN	10 13 71249
Flat pH electrode for surface measurements, 3-hole diaphragm with Teflon	10 13 71413
⑨ Flow pH electrode for viscous samples and low ion media	10 13 71373
⑩ Semi-Micro pH electrode for small volume samples	10 13 71383
Micro pH electrode for small volume samples	10 13 71213
Micro P pH electrode for small volume samples with mit protein, electrolyte glycerin	10 13 71253
Gel Plast BNC pH electrode with epoxy body, fix BNC-cable and double ceramic diaphragm	10 13 75223



pH electrodes for food measurement applications

Article	Order No.
Food pH electrode with glycerin KCl electrolyte and 3 ceramic diaphragm	10 13 71393
2 PORE pH electrode with 2 open pore diaphragm	10 13 71333
2 PORE Slim like 2 PORE, with small surface Ø 4,5 mm	10 13 71283
2 PORE F like 2 PORE, shaft POM/glass	10 13 71293
2 PORE T like 2 PORE, with temperature sensor and fix cable BNC	10 13 71323
2 PORE Steel T like 2 PORE, shaft steel/glass, with temperature sensor and fix cable BNC	10 13 71313
2 PORE K complete like 2 PORE T, with knife	10 13 71303
2 PORE K 2 PORE K without knife	10 13 71343
Knife Replacement knife for 2 PORE K	10 13 71353
Food Slim pH electrode with glycerin KCl electrolyte and 2 ceramic diaphragm	10 13 71248

