

Conductivity Meter, 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 conductivity meter EC-20-cond/EC-25-cond

An elegant and ergonomic case, with a practical soft rubber and IP57 protection, has inside the best of technology. A large display (backlight for EC-25 COND) shows all information that you need about the measurement, cell's life and instrument's memory. All the functional parameters of connected cell, during measurement or calibration, are constantly checked and inform the operator for easy trouble-shooting. Only 4 keys for (6 for EC-25 cond) allow the user to control all functions in an intuitive and easy way. A practical USB port (EC-25-cond), covered to guarantee waterproof protection, allow to download data (with date of last calibration done) or power the instruments by computer or with power supply 220V/USB included.

EC-20 cond / EC-25 cond

- Display conductivity and temperature simultaneously
- Automatic calibration 1 to 3 points between 4 conductivity standard values
- Manual calibration on 1 point (user defined)
- Large display (backlight for EC-25 cond)
- Automatic and manual compensation of temperature with reference value 15°C to 30°C
- Waterproof IP57 protection
- Strong carrying case with all accessories

Additional for EC-25 cond

- TDS measurement with adjustable factor
- GLP
- Memory recall of last calibration with control of cell constant, date and time
- CAL DUE: set of calibration frequency for high quality measurements
- Data logger, manual and automatic with 500 memory values with date and time
- USB port to download data and power by Computer or power supply (included)
- Software PC-Link to download data (included)

Technical data:	EC-20-cond	EC-25-cond
Measuring range conductivity:	0.0 – 199.9 mS	0.0 – 199.9 mS
Accuracy:	0.1/1 µS 0.01/0.1 mS	0.1/1 µS 0.01/0.1 mS
Calibration points:	1 to 4	1 to 4
Calibration standards:	84 µS – 1413 µS – 12.88 mS – 111.9 mS and user defined	
Cell constant selectable:	0.1 – 1 – 10 cm ⁻¹	0.1 – 1 – 10 cm ⁻¹
Temperature range:	0 – 100°C	0 – 100°C
Accuracy:	0.1°C / ± 0.5°C	0.1°C / ± 0.5°C
TDS measuring range:	—	0 – 100 g/l
Resolution:	—	1%
GLP:	—	Yes
CALDUE:	—	Yes
Memory:	—	date and time
IP-class:	IP 57	IP 57
Warranty Instrument:	5 Years	5 Years



Article	Order No.
EC-20 cond 0	10 13 75209
Kit without cell, with standard calibration solutions, carrying case and accessories	
EC-20 cond 1	10 13 75201
Complete kit include cond. Cell 2301T with ATC, standard calibration solutions, carrying case and accessories	
EC-25 cond 0	10 13 75250
Kit without cell, with standard calibration solutions, carrying case and accessories	
EC-25 cond 1	10 13 75251
Complete kit include cond. Cell 2301T with ATC, standard calibration solutions, carrying case and accessories	

② Basic conductivity benchtop meter EC-30-cond

The LCD back light display easy on to read shows all information that you need about measurement, included icon for stability. Up to 4 point conductivity calibration with automatic recognition. Easy to use, easy to calibrate.

- Display COND and Temperature parameters simultaneously
- Resolution: automatic scale
- Selectable cell constant allows for use with 2 plate cell
- Automatic calibration 1 to 4 points between 4 conductivity standard values
- Indication stability of the measurement with icon
- IP54 rated housing handles splashes
- 3 years meter replacement warranty

Technical data:

Measuring range conductivity: 0 – 200.0 – 2000 μ S / 2.00 – 20.00 – 200.0 mS
 Accuracy: 0.1 – 1 μ S / 0.01 – 0.1 mS
 Calibration points: 1 to 4
 Calibration standards: 84 μ S – 1413 μ S – 12.88 mS – 111.9 mS
 Cell constant selectable: 0.1 – 1 – 10 cm^{-1}
 Temperature coefficient: 0.00 – 9.99% / $^{\circ}\text{C}$
 Reference temperature: 25 $^{\circ}\text{C}$
 Temperature range: 0 – 50.0 $^{\circ}\text{C}$
 Accuracy: 0.1 $^{\circ}\text{C}$
 Temperaturkompensation: automatic / manual 0 – 80 $^{\circ}\text{C}$
 Temperature compensation: AC/DC adapter 9 V / 300 mA
 IP protection class: IP 54
 Dimensions: 160 x 190 x 70 mm
 Weight: 750 g



Article	Order No.
EC-30-cond-0	10 13 75300
Meter without conductivity cell, incl. calibration standards, cellholder and accessories	
EC-30-cond-1	10 13 75301
Meter with conductivity cell 2301T, incl. calibration standards, cellholder and accessories	

③ Professional conductivity benchtop meter EC-45 cond

The large color display easy on to read shows all information necessary information about measurement, calibration, standards, cell condition, GLP. Anyone can use this meter easily with its intuitive menu available in up to 8 languages in the EC-45 cond. Easy to learn. Up to 4 calibration points with buffer recognition. Icon support for all calibration functions and advanced electrode diagnostics. Easy to calibrate. All functions can be controlled in an intuitive and easy way.

- Display COND/TDS and Temperature simultaneously
- Resolution: automatic scale
- Selectable cell constant allows for use with 2 plate cell
- Automatic calibration 1 to 4 points between 4 conductivity standard values
- Manual-Calibration up to 1 points (User defined)
- Large 2 color display with indication of Calibration Standards and measurement's stability
- Instrument can be delivered with a magnetic stirrer
- Selectable cell constant allows for use with 2 or 4 plate cell
- GLP and IQ-OQ manual available
- Automatic and manual compensation of temperature with reference value 15 to 30 $^{\circ}\text{C}$
- Memory with re-call of last calibration date and time and information of cell constant
- CAL DUE: set of calibration frequency for high quality of measurements
- Non-volatile memory holds up to 1000 data points with date and time in automatic (Data logger) or manual printer
- 2 x USB ports to transfer data and software PC-Link to download data (included)
- IP54 Protection
- 3 years instrument warranty

Technical data:

Measuring range conductivity: 0.00 - 1000 mS
 Accuracy: 1% value reading
 Relative accuracy: $\pm$ 0,5% value reading
 TDS Measuring range: 0.1 m/l – 500 g/l
 TDS factor: 0.40 – 1.00
 Temperature range: -20 – 200 $^{\circ}\text{C}$
 Accuracy/resolution temp.: 0.1 / $\pm$ 0.2 $^{\circ}\text{C}$
 Temperature compensation: manual or automatic
 Temperature calibration: yes
 Calibration points: 1 to 4
 Calibration standards: 84 μ S – 1413 μ S – 12.88 mS – 111.8 mS
 Indication of cell condition: user-defined
 GLP: yes
 CALDUE: yes, with date and time
 Memory: 1000 data
 Interfaces: 2 x USB
 Protection class: IP 54
 Power supply: AC/DC adapter 9 V / 300 mA
 Dimensions: 200 x 220 x 100 mm
 Weight: 950 g



Article	Order No.
EC-45-cond-0 Kit without conductivity cell, standard solution 1413 μ S and 12,88 mS, cell holder and accessories	10 13 75450
EC-45-cond-1 Kit included conductivity cell Glass-Pt VPT80/1, standard solution 1413 μ S and 12,88 mS, cell holder and accessories	10 13 75451

