

Conductivity Meter, Phoenix Instrument



WWSB5036



Innovative measurement technology „Made in Europe“ – this is what the new pocket and laboratory measuring instruments of the Phoenix Instrument EC series offer.

During the development, the main focus was put on user-friendliness and the technical features of the instruments. The pH electrodes and conductivity cells are produced in Switzerland by experienced specialists.

Portable conductivity meter EC-21-cond/EC-26-cond

During the new development of the EC-21/EC-26 series, particular emphasis was placed on easy handling during daily routine. The high-resolution color display guides the user intuitively through the measurement and calibration process.

EC-21 cond

- High-resolution color display, adjustable brightness
- Display of conductivity/TDS and temperature values
- Automatic LF-calibration up to 5 points
- Selectable stability parameter (low-medium-high)
- Automatic and manual temperature compensation
- Protection class IP 57
- Supplied in a robust carrying case with all accessories

... additionally for the EC-26 cond

- GLP-function
- Data logger (automatic or manual) 1000 data strings
- Connection to PC via micro-USB
- Free DATA LINK +
- Automatic brightness regulation

Technical data:

	EC-21-cond	EC-26-cond
Cond meas. range:	0.00 – 200 mS	0.00 – 200 mS
Resolution:	0.1/1 µS 0.01/0.1 mS	0.01/0.1/1 µS 0.01/0.1 mS
Calibration points:	1 – 5	1 – 5
Cell constant selectable:	0.1 – 1 – 10 cm ⁻¹	0.1 – 1 – 10 cm ⁻¹
Temperature range:	0.0 – 100°C	-10 – 110°C
Resolution:	0.1 / ± 0.5°C	0.1 / ± 0.5°C
TDS measuring range:	0.1 mg/l – 200 g/l	0.1 mg/l – 200 g/l
GLP:	–	yes
CALDUE:	no	yes
Memory:	–	1000 data
Output:	–	Micro USB
IP-class:	IP 57	IP 57
Dimensions:	185 × 85 × 45 mm / 400 g	185 × 85 × 45 mm / 400 g
Warranty instrument:	3 years	3 years



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Article	Order No.
① EC-21-cond-0 Kit without cond. cell, with conductivity standard, carrying case and accessories	10 13 71210
EC-21-cond-1 Complete kit include cond. cell 2301T with conductivity standard, carrying case and accessories	10 13 71211
② EC-26 cond-0 Kit without cond. cell, with conductivity standard, power supply, carrying case and accessories, software PC-Link, USB- cable	10 13 71260
EC-26 cond-1 Complete kit include cond. cell 2301T with conductivity standard, power supply, carrying case and accessories, software PC-Link, USB- cable	10 13 71261

Basic bench conductivity meter EC-31-cond/EC-36-cond

During the new development of the EC-31/EC-36 series, particular emphasis was placed on easy handling during daily routine. The high-resolution color display guides the user intuitively through the measurement and calibration process.

EC-31 cond

- High-resolution color display, adjustable brightness
- Display conductivity/TDS and temperature values
- Automatic LF-calibration up to 5 points
- Selectable stability parameter (low-medium-high)
- Automatic and manual temperature compensation
- Protection class IP 54

... additionally for the EC-36 multi

- GLP-function
- Data logger (automatic or manual) 1000 data strings
- Connection to PC via micro-USB
- Free DATA LINK +



Technical data:	EC-31-cond	EC-36-cond
Cond meas. range:	0.00 – 200 mS	0.00 – 200 mS
Resolution:	0.1/1 µS 0.01/0.1 mS	0.01/0.1/1 µS 0.01/0.1 mS
Calibration points:	1 – 5	1 – 5
Cell constant selectable:	0.1 – 1 – 10 cm ⁻¹	0.1 – 1 – 10 cm ⁻¹
Temperature range:	0.0 – 100°C	-10 – 110°C
Resolution:	0.1 / ± 0.5°C	0.1 / ± 0.5°C
TDS measuring range:	0.1 mg/l – 200 g/l	0.1 mg/l – 200 g/l
GLP:	–	yes
CALDUE:	no	yes
Memory:	–	1000 data
Output:	–	Micro USB
IP-class:	IP 54	IP 54
Dimensions:	170 × 145 × 60 mm / 530 g	170 × 145 × 60 mm / 530 g
Warranty instrument:	3 years	3 years



Article	Order No.
③ EC-31 cond 0	10 13 71310
Kit without cond. cell, with conductivity standard, electrode holder.	
EC-31 cond 1	10 13 71311
Kit include cond. cell 2301T with conductivity standard, electrode holder.	
EC-36 cond 0	10 13 71360
Kit without cond. cell, with conductivity standard, electrode holder, software PC-Link, USB- cable.	
EC-36 cond-1	10 13 71361
Kit include cond. Cell 2301T with conductivity standard, electrode holder, software PC-Link, USB- cable.	

④ Professional bench top conductivity 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-point Conductivity calibration with automatic recognition of all standards. Icon support for all calibration functions and advanced electrode diagnostics. Easy to calibrate. All functions can be controlled in an intuitive and easy way. Instrument will be delivered with a stirrer.

EC-45 cond

- Large color display with indication of Calibration Buffers and measurement's stability
- Indication stability of the measurement with icon
- IP54 protection
- 3 years instrument warranty
- Display COND/TDS/Salinity/Resistivity and Temperature simultaneously
- Selectable Resolution: 0.1/0.01/0.001 pH; Auto range for COND
- GLP and IQ-OQ manual available
- Selectable cell constant
- Memory with re-call of last calibration date and time and information of electrode's life
- CAL DUE: set of calibration frequency for high quality of measurements
- Stability Parameter (Low-Med-High) for high accuracy measurement
- Non-volatile memory holds up to 1000 data points with date and time in automatic (Data logger) or manual
- 2 × USB ports to transfer data at PC or printer and for external keyboard
- Software PC-Link to download data (included)

Technical data:

Cond. Measuring range:	0.00 – 20.00 / 200.0 / 2000 µS 2.00 / 20.00 / 200.0 / 1000 mS
Accuracy:	±1% full scale
Temperature compensation:	manual oder automatic
Calibration points cond.:	1 to 4
Calibr. standards recognized:	84, 1413 µS / 12.88, 111.8 mS, custom
Cell constant selectable:	0.1 – 1 – 10 cm ⁻¹
TDS measuring range:	0.1 mg/l – 500 g/l
TDS factor:	0.40 – 1.00
Accuracy TDS:	±1% full scale
Temperature range:	-20 – 120°C
Accuracy/resolution temp.:	0.1/±0.2°C
Temperature calibration:	yes
GLP:	yes, with date and time
CALDUE:	yes
Memory:	yes, 1000 data
Interputs:	2 × USB, RS-232
Protection class:	IP 54
Power supply:	AC/DC adaptor 12 V / 1000 mA
Dimensions:	165 × 195 × 68 mm, 1050 g without stirrer



Article	Order No.
EC-45 cond 2	10 13 70452
Kit without cond.-cell, with cond.-standards 1413 μ S and 12.88 mS, asseccories, with magnetic stirrer,	
EC-45 cond 3	10 13 70453
Kit with cond.-cell VPT 80/1, cond.-standards 1413 μ S and 12.88 mS, asseccories, with magnetic stirrer	

