PHOENIX Instrument
Lab Solutions

New portable Conductivity meter EC-22 cond and EC-27 cond

Phoenix Instrument is proud to present a new generation of portable measuring instruments that combines the highest precision with modern design. Developed for use in both laboratory settings and demanding outdoor conditions, these instruments feature a waterproof construction and a compact, elegant design.

The development of this innovative series has been significantly shaped by a combination of many years of technical experience, valuable input from the field, and the ever-growing demands of users. The result is a well-designed measuring instrument that brings functionality and user-friendliness to the highest level.

A large, high-resolution, backlit TFT display allows for a display of multiple parameters simultaneously. Intuitive operation ensures an efficient workflow, while selected models are equipped with advanced features such as an integrated data logger and a state-of-the-art USB-C interface for easy data transfer to a PC.

EC-22 cond

- High-resolution, backlit TFT display
- Rugged, waterproof design (IP-65)
- 2-Ring Cond-cell, (c = 0,1 – 1 – 10)
- 3 selectable cell constant
- Automatic calibration up to 4 points, user-defined points
- Manual or automatic Temperature compensation
- Selectable reference temperature (15...30 °C)
- Measuring of Conductivity, TDS, Salinity and Temperature
- Simultaneous display of measuring results
- Memory for up to 100 data points
- Supplied in a sturdy carrying case with all accessories

EC-27 cond

- High-resolution, backlit TFT display
- Rugged, waterproof design (IP-65)
- 4-Pol Cond-Cell, (c = 0,55) Measuring Range: 0,1 µS...1000,0 mS
- Automatic calibration up to 4 points, user-defined points
- Manual or automatic Temperature compensation
- Selectable reference temperature (15...30 °C)
- Measuring of Conductivity, TDS, Salinity and Temperature
- Simultaneous display of up to 4 Measuring results
- Manual and automatic Data logger, up to 1000 Data
- Custom labeling of measurement data (sensor ID / user ID / sample ID)
- 5 selectable user languages
- Supplied in a sturdy carrying case with all accessories



EC-27 cond

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Available Sets

EC-22-cond 0 Meter without Cell, incl. Calibration standards, carrying case and accessories

EC-22-cond 1 Meter with Cond. cell 2301T, Calibration standards, carrying case and accessories

EC-22-cond 2 Meter with Cond. Cell EPT 1 (for heavier soiling), Cal. standards, carrying case and accessories

EC-27-cond-0 Meter without Cell, incl. Calibration standards, USB cable, Software PC-link, carrying case and accessories

EC-27-cond-1 Meter with Cond. cell EPT 4 (0.1 µS...1000.0 mS), Cal. standards, USB cable, Software PC-link, carrying case and accessories



Set with case

Accessories

1001612 Power Supply for EC-27pH

1000962 Softcase with adjustable shoulder strap

Technical data	EC-22 cond	EC-27 cond
Measuring Range (Cond)	0.01 µS/cm ... 200 mS/cm	0,01 µS/cm ... 1,000 mS/cm
Resolution (Cond)	0.01 / 0.1 / 1 µs/cm	0.01 / 0.1 / 1 µs/cm
Measuring Range (Salinity)	0.1 ppm ... 100 ppt	0.1 ppm ... 100 ppt
Measuring Range (TDS)	0.1 mg/l ... 200 g/l	0.1 mg/l ... 500 g/l
Conversion factor	Linear (0,4 … 1)	Linear (0.4 … 1) / NaCl / KCl / 442
Measuring Range (Temp)	0 ... +100 °C	-10 ... +110 °C
Readability / Accuracy	0.1 / ± 0,5 °C	0.1 / ± 0.5 °C
Calibration points	1…4	1…5
Cal. Standards	84, 1413 µS / 12.88, 111.8 mS and user defined	5.00 µS / 84, 1413 µS / 12.88, 111.8 mS and user defined
GLP	No	Yes
Calibration alarm	No	Yes
Memory	100 Data	1000 Data
Interface	No	USB-C
IP-Class	IP 65	IP 65
Dimension	75 x 160 x 45 mm	75 x 160 x 45 mm
Warranty	2 years	2 years

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