

Salt Meter PCE-PHD 1



PCE-PHD 1 Salt Meter

pH value, redox, conductivity, salt, oxygen and temperature measuring device /

SD card memory (1 ... 16 GB), data is saved as an Excel file / large, easy-to-read display / RS-232 interface and optional software for direct transfer to the PC

The PCE-PHD 1 Salt Meter is a portable, easy-to-use measuring device with multiple capabilities for inspecting water quality. Offering extraordinary precision at an affordable price, the multifunctional Data Logger is used for laboratory and in situ testing of the pH value, redox, conductivity, salt content, oxygen level and temperature of water.

Three-point calibration and automatic temperature compensation guarantee a high level of accuracy even with variable temperature measurements. This meter is supplied with both a pH electrode and a conductivity electrode. Additional electrodes are available for purchase separately, as is an optional mains adapter for power and a software kit with an RS-232 cable. This meter acts as a real-time data logger. All values can be stored directly on the included SD card in Microsoft Excel format or transferred to a PC by means of the RS-232 port. Thus, no additional software is required for evaluation of the data.

- ▶ Optimal price / performance ratio
- ▶ Real-time data logger
- ▶ SD card memory (1 ... 16 GB)
- ▶ The saved data is saved directly as an Excel file on the SD card (for evaluation, no software is required)
- ▶ RS-232 interface for online data transfer
- ▶ Measures pH value, redox, conductivity, salt content, oxygen, and temperature
- ▶ High precision
- ▶ Low battery display
- ▶ Large LC display
- ▶ Adjustable measuring rate
- ▶ Easy to use
- ▶ Robust housing
- ▶ Includes **pH** and **conductivity** electrode
- ▶ Automatic calibration
- ▶ Manual or automatic temperature compensation
- ▶ BNC connector
- ▶ Suitable for laboratory and on-site measurements
- ▶ REDOX and oxygen electrode optionally available

Subject to change

Specifications

pH measurement

Measurement range	0 ... 14.0 pH
Resolution	0.01 pH
Accuracy	±0.02 pH + 2 digits
Calibration	3 points (pH 4, pH 7, and pH 10)
Temperature compensation	Automatic with additional temperature sensor (0 ... 60 °C / 32 °F ... 140 °F) or manual (0 ... 100 °C / 32 °F ... 212 °F)

Redox measurement (optional)

Measurement range	1999 ... 0 ... 1999 mV
Resolution	1 mV
Accuracy	± 0.5 % + 2 digits

Conductivity measurement

Measurement range	0 ... 200 µS/cm, 0.2 ... 2.0 mS/cm, 2 ... 20.0 mS/cm, 20 ... 200 mS/cm
Resolution	0.01 µS/cm, 0.001 mS/cm, 0.01 mS/cm, 0.1 mS/cm
Accuracy	±2 % of the measurement range + 1 digit
Calibration	1413 mS/cm
Temperature compensation	Automatic (0 ... 60 °C / 32 °F ... 140 °F)

Total dissolved solids (TDS) measurement

Measurement range	0 ... 132 ppm, 132 ... 1320 ppm, 1320 ... 13200 ppm, 13200 ... 132000 ppm
Resolution	0.1 ppm, 1 ppm, 10 ppm, 100 ppm
Accuracy	±2 % of the measurement range + 1 digit
Temperature compensation	Automatic (0 ... 60 °C / 32 °F ... 140 °F)

Salt content measurement

Measurement range	0 ... 12 % (of weight)
Resolution	0.1 %
Accuracy	±0.5 % of the measurement range
Temperature compensation	Automatic (0 ... 60 °C / 32 °F ... 140 °F)

Oxygen measurement (optional)

Measurement range	0 ... 20 mg/l (in water), 0 ... 100 % (in air), 0 ... 50 °C / 32 °F ... 122 °F
Resolution	0.1 mg/l, 0.1 %, 0.1 °C
Accuracy	±0.4 mg/l, ±0.7 %, ±0.8 °C
Calibration	In the air
Temperature compensation	Automatic (0 ... 50 °C / 32 °F ... 122 °F)

More information

Manual



More product info



Similar products



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Temperature measurement

Measurement range	0 ... 60 °C / 32 °F ... 140 °F
Resolution	0.1 °C
Accuracy	±0.8 °C
Temperature compensation	Automatic (0 ... 60 °C / 32 °F ... 140 °F)

General specifications

Measurement rate	1 second up to 8 hrs 59 mins 59 secs
Display	LCD 52 x 38 mm / 2 x 1.5"
Memory	SD card up to 16 GB (2 GB card included)
Interface	RS-232
Software	Optional
Power supply	6 x 1.5 V AA batteries (optional power adapter)
Operating conditions	0 ... +50 °C / < 85 % RH
Dimensions	177 x 68 x 45 mm / 7.0 x 2.7 x 1.8"
Weight	490 g / 1.1 lbs

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