

PH / CONDUCTIVITY / SALT / OXYGEN WATER QUALITY DATA LOGGER

PCE-PHD 1



- » 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

The pH / Conductivity / Salt / Oxygen Water Quality Data Logger 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.

Specification

Conductivity	
Measuring range	0 ... 200 µS/cm
Resolution	0,1 µS/cm
Accuracy	±(2% FS +1 digit)
Conductivity	
Measuring range	0,2 ... 2 mS/cm
Resolution	0,001 mS/cm
Accuracy	±(2% FS +1 digit)
Conductivity	
Measuring range	2 ... 20 mS/cm
Resolution	0,01 mS/cm
Accuracy	±(2% FS +1 digit)
Conductivity	
Measuring range	20 ... 200 mS/cm
Resolution	0,1 mS/cm
Accuracy	±(2% FS +1 digit)
pH	
Measuring range	0 ... 14 pH
Resolution	0,01 pH
Accuracy	±0.02 pH +2 digits
Redox	
Measuring range	-1999 ... +1999 mV
Resolution	1 mV
Accuracy	±0.5% +2 Digits
Salinity	
Measuring range	0 ... 12 ‰
Resolution	0,01 ‰
Accuracy	±0.5 ‰ FS
Oxygen	
Measuring range	0 ... 20 mg/L
Resolution	0,1 mg/L
Accuracy	±0.4% mg/l
Oxygen	
Measuring range	0 ... 100 ‰
Resolution	0,1 ‰
Accuracy	±0.7%
TDS	
Measuring range	0 ... 132 ppm

General technical data	
Temperature compensation	automatic, 0 to 60°C / 32 to 140°F
Display type	LCD
Display size	2,54 Inch
Storage medium	SD card
Storage capacity	16 GB
Memory capacity (additional information)	SD card from 1 GB to 16 GB possible
Storage interval from	1 s
Storage interval to	9 h
Interface	RS232
Number of calibration points	3
Menu language	English, English (GB)
Protection class (device)	IP20
(Rechargeable) battery	6 x 1,5 V AA battery , Alkali-manganese
Capacity	3000 mAh
Operating conditions	0 ... 50 °C , 0 ... 85 % RH
Storage conditions	0 ... 50 °C , 0 ... 85 % RH
Dimensions (L x W x H)	177 x 68 x 45 mm
Weight	490 g

Resolution	0,1 ppm
Accuracy	±2% FS +1 digit
TDS	
Measuring range	132 ... 1320 ppm
Resolution	1 ppm
Accuracy	±2% FS +1 digit
TDS	
Measuring range	1320 ... 13200 ppm
Resolution	10 ppm
Accuracy	±2% FS +1 digit
TDS	
Measuring range	12200 ... 132000 ppm
Resolution	100 ppm
Accuracy	±2% FS +1 digit
Temperature	
Measuring range	0 ... 60 °C
Resolution	0,1 °C
Accuracy	±0.8 °C
Electrode	
Designation	CPC-EP5-1
Measuring range	0 ... 14 pH
Temperature range	0 ... 60 °C
Shank material	Glass
Cable length	1 m
Electrode	
Designation	CDPB-03
Measuring range	0 µS/cm ... 200 mS/cm
Temperature range	0 ... 60 °C
Shank length	120 mm
Shank diameter	22 mm
Cable length	1 m
Connection	BNC