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Technical Data Logger PCE-PHD 1

PCE-PHD 1 Data Logger

Includes a pH electrode and a conductivity electrode

The PCE-PHD 1 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 PCE-PHD 1 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. The PCE-PHD 1 Data Logger comes 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.

The PCE-PHD 1 Data Logger 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.

Features

- Automatic calibration
- Low battery indication
- Adjustable measurement rate
- Manual or automatic temperature compensation
- Compatibility with SD cards up to 16 GB
- Electrodes for pH and conductivity
- BNC connector

pH measurement

Measurement ranges

Resolution	0,00 ... 14,00 pH
Accuracy	0,01 pH
Calibration	±0,02 pH + 2 digits
Temperature compensation	3 points (pH 4, pH 7 y pH 10) automatic with additional temperature sensor (0 ... 60°C) o manual (0 ... 100 °C)

Conductivity

Measurement ranges	0 ... 200,0 µS/cm 0,2 ... 2,000 mS/cm 2 ... 20,00 mS/cm 20 ... 200 mS/cm
Resolution	0,01 µS/cm 0,001mS/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)

TDS

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)

Salt content

Measurement range	0 ... 12 % (of weight)
Resolution	0,01 %
Accuracy	±0,5 % of the measurement range
Temperature compensation	automatic (0 ... 60 °C)

Oxygen

Measurement range	0 ... 20 mg/l (in water) 0 ... 100 % (in air) 0 ... 50 °C
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)

Temperature

Measurement range	0 ... 60 °C
Resolution	0,1 °C
Accuracy	±0,8 °C
Temperature compensation	automatic (0 ... 60 °C)

Technical specifications

Measurement rate	1 second up to 9 hours
Display	LCD
Memory	SD card (up to 16 GB) a 2 GB card included in the delivery
Interface	RS-232
Software	optional
Power supply	6 x 1,5 V AA batteries (optional mains adapter)
Operating conditions	0 ... +50 °C / <85 % H.r.
Dimensions	177 x 68 x 45 mm
Weight	490 g

Delivery contents

1 x PCE-PHD 1 Data Logger
1 x pH electrode
1 x conductivity electrode
1 x SD memory card
6 x 1.5 V AA batteries
1 x user manual