

## pH-Meter **228HTE**

### Environmental Meter PCE-228HTE

**The environmental meter measures for pH, Redox and temperature /  
SD memory card (1 ... 16 GB), measured values are stored in an Excel file /  
Large display / RS-232 interface and optional software for the PC**

The PCE-228 environmental meter is an easy-to-use handheld device for measuring pH, mV, °C and °F. With the PCE-228 environmental meter, both temperature and pH values can be directly stored onto a SD card (in Excel format), or transferred to a PC through an RS-232 interface. An optional software and data cable for the PCE-228 environmental meter are available as optional accessories to transfer data to a computer. Temperature compensation in the PCE-228 environmental meter can be done manually or automatically by way of the temperature sensor which is included.

The environmental meter has two calibration points. The calibration can be done with the trimmer on the side of the device which is protected under a cover. With this combined device, the user can determine pH value, temperature or Redox potency (ORP). For the latter measurement parameter, a Redox electrode must be ordered separately from the PCE-228 environmental meter. We recommend the ORP-14 electrode. The environmental meter is powered by a 9V battery which is included.

- Good price-performance ratio
- SD memory card (up to 16 GB)
- Measured values are directly saved in the SDcard as an Excel file
- RS-232 interface for real time data transference
- Measures pH values, Redox, conductivity, salt content, oxygen and temperature
- High accuracy
- Low battery indication
- Large LCD display
- Adjustment of the measurement rate
- Easy-to-use enclosure
- Includes pH PCE-PH-HTE electrode and a stainless steel temperature sensor
- Automatic calibration
- Manual or automatic temperature compensation
- BNC connector
- Suitable for measurements in laboratories and on site
- Optional Redox electrode

### Specifications:

Measurement range 0.00 to 14.00 pH  
-1999 to 0 to 1999 mV (only with the optional Redox electrode)  
0 ... 65°C or 32 ... 149°F (only the temperature sensor)

Resolution

	0.01 pH 1 mV 0.1°C / 0.18°F
Accuracy (at 20°C / 68°F)	± (0.02 pH + 2 digits) ± (0.5 % + 2 digits) ±0.5°C / 0.9°F
Calibration	Automatic three-point calibration
Temperature compensation	Automatic from 0 to 65°C / 32 ... 149°F or manual between 0 and 100°C / 32 and 212°F, Removing the temperature sensor
Electrode	pH PCE-PH-HTE electrode, 1 meter cable and BNC plug Temperature range: 0 ... 60°C / 32 ... 140°F
Measurement rate	Adjustable from 1 second up to 8 hours 59 min 59 sec
Display	LCD display: 52 x 38 mm / 2 x 1.5 in
Memory	SD card from 1 ... 16 GB (2 GB memory card included)
Interface	RS-232
Software	Optional
Power supply	6 x 1.5V AA batteries / Mains adapter / AC power adapter 9V (optional)
Operating conditions	0 ... 50°C / 32 ... 155°F, max. 80% r.h.
Dimensions	177 x 68 x 45 mm / 7 x 2.7 x 1.8 in
Weight	490 g / 1.1 lb

#### **Delivery scope:**

- 1 x PCE-228HTE environmental meter
- 1 x PCE-PH-HTE electrode
- 1 x SD memory card (2 GB)
- 1 x Temperature sensor
- 6 x Batteries
- 1 x Manual