

Redox Meter PCE-ORP 3



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ORP measuring device for measuring temperature and redox potential / Measurement data memory for 50 data sets / Water- and dust-proof housing / Exchangeable measuring electrode

The ORP measuring device is used to determine the redox potential in laboratories, industry and environmental protection. In addition to the classic use in laboratories, the ORP measuring instrument is used in the industrial sector, such as food production. The ORP meter has been designed to be a handy meter powered by batteries. Thus, a mobile use is enabled and facilitated by a belt clip.

Chemically, the redox potential describes the oxidation and reduction potential of a solution. In the industry, the ORP meter is used in addition to food production also in the detoxification of wastewater. This is done by reducing chromate or the oxidation of cyanide.

The ORP meter is a durable instrument that allows you to replace the electrode after a long period of use. The measured values are shown on the display or can also be stored on the internal measured value memory. This measured value memory has a capacity of 50 measured values, whereby the measured values are provided with a time and date stamp. Thus, they are traceable and a corresponding analysis is facilitated in favor of the user.

- ▶ Robust housing (IP67)
- ▶ Measurement data memory for 50 data sets
- ▶ Mobile measuring instrument
- ▶ HOLD function
- ▶ Exchangeable electrode
- ▶ Low battery warning

Specifications

Absolute measuring range redox potential	-1100 ... +1100 mV
Resolution redox potential	1 mV
Measuring accuracy redox potential	$\pm 1 \text{ mV} \pm 1 \text{ digit}$
Relative calibration range Redox potential	-999 ... +999 mV, adjustable
Input resistance	$> 1012 \Omega$

Technical data of ORP meter PCE-ORP 3: Temperature

Measuring range temperature	-10 ... 100°C / 14 ... 212°F
Resolution temperature	1 mV
Measuring accuracy temperature	$\pm 0.3^\circ\text{C} / 0.5^\circ\text{F}$
Temperature sensor	Thermistor, 10K at 25°C / 77°F
Measuring unit	° C, ° F

Technical Data of ORP Meter PCE-ORP 3: General

power supply	4 x LR44 battery
Battery life	About 200 hours
Environmental conditions	0 ... 50°C / 32 ... 122°F
display	Graphic LCD, 98 x 64 pixels
Measurement data storage	50 measuring groups with date and time stamp
Automatic shutdown	After 10 minutes of inactivity
Casing	Waterproof housing (IP67)
Dimensions (L x W x H)	193 x 44 x 25 mm / 7.6 x 1.7 x 1 in
Weight	107 g / < 1 lb

Subject to change