

## PRECISE PH MEASUREMENT AND REDOX POTENTIAL DETERMINATION WITH THE NEW GLP-COMPLIANT PCE-PH 228



The pH value plays a very important role in many industries. PCE Instruments has various pH meters with different pH electrodes in its product range to cover a wide selection of applications. With the new combined pH and redox potential measuring instrument PCE-PH 228, PCE Instruments is launching a precise test instrument on the market that can be used universally and for mobile applications.

The PCE-PH 228 can not only measure the pH value and temperature of various liquids but also the redox potential in millivolts (mV). The redox measurement is realised using an optional electrode.

This measuring device is versatile and covers many areas of application. Thanks to its high accuracy, the PCE-PH 228 is particularly suitable for laboratory work. One advantage of the meter is that it can be calibrated independently by means of a two-, three-, four- or five-point calibration, depending on the area of application. A special feature of the calibration of the measuring device is that it can be calibrated using a self-selected buffer solution. Another advantage of the PCE-PH 228 is that the device has automatic temperature compensation. Thanks to the temperature sensor included in the scope of delivery, the temperature of the medium to be measured is also determined and taken into account directly in the measurement result and does not have to be set manually.

The PCE-PH 228 can also be used to measure the redox potential in the laboratory, in water treatment or in the industrial sector, e.g. in electroplating. Redox measuring devices fulfil the requirements placed by users on a device for measuring the oxidation or reduction potential of a solution.

The measurement range for the redox voltage of the PCE-PH 228 is between -2000 and 2000 mV.

The measurement of the redox potential is dependent on the pH value, which is why the measuring device is a good solution as it combines both measurements. You can switch between the two parameters by simply replacing the sensor.

The PCE-PH 228 is used wherever it is important to monitor water quality, e.g. in swimming pools or water treatment plants. It can also be used in nurseries or in environmental protection



applications. Another major advantage of the PCE-PH 228 is that you can create personal user accounts and thus track which measurements were carried out by whom. The pH meter was developed in accordance with GLP in order to fulfil a wide range of requirements. GLP compliance is ensured by automatic data recording and traceable documentation. The PCE-PH 228 has a resolution that can be set from one to three decimal places. Furthermore, the measured values can be read out and analysed using PCE software.

The high accuracy of  $\pm 0.002$  pH + 2 digits, graphically guided calibration, GLP compliance, user and sample management and data storage make the PCE-PH 228 an ideal test instrument for scientists, researchers and laboratory technicians who rely on precise pH measurements. It not only improves the accuracy and efficiency of experiments but also simplifies everyday work in industry, quality assurance and the laboratory.

More information can be found here:

[https://www.pce-instruments.com/english/measuring-instruments/test-meters/ph-meter-ph-tester-kat\\_40088.htm](https://www.pce-instruments.com/english/measuring-instruments/test-meters/ph-meter-ph-tester-kat_40088.htm)

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