

HIGH-PRECISION PH METER

PCE-PH 228LAB-GEN



- » **fast, precise pH and temperature measurement**
- » **redox measurement (with optional electrode)**
- » **GLP data management**
- » **simple 2, 3, 4 and 5-point calibration**
- » **calibration reminder**
- » **Permanent Measurement Verification (PMV)**
- » **graphical display of measurement progress**
- » **data logger**
- » **application: chemical, pharmaceutical and food industry**

The high-precision pH meter stands for precision, user-friendliness and GLP (Good Laboratory Practice) conformity. With a high-resolution LC display, the high-precision pH meter provides a clear and concise display of the measured values. GLP compliance is guaranteed by automatic data recording and traceable documentation. It is possible to measure pH or redox values and temperature with external sensors.

Permanent Measurement Verification (PMV) shows the user where the measured value is within the calibration range using a coloured bar in order to determine whether the measurement is made within the correct range.

The graphically guided calibration makes the process simple and user-friendly. User and sample management allow easy navigation and setting of measurement parameters on the pH meter. Sample information can be saved to facilitate the management and identification of measurements. A generous internal data memory saves extensive records without the need for external storage. The USB-C port on the pH meter ensures fast data transfer and charging. A powerful rechargeable LiPo battery enables hours of measurements before it needs to be recharged. The electrode is refillable. The integrated ion exchanger in the reference prevents the chemical reaction of the measuring solution with AgCl and prevents "electrode poisoning".

Overall, this high-precision pH meter represents a significant step in the development of hand-held and laboratory instruments.

Specification

pH	
Measurement range up to	-2 ... +20 pH
Resolution	0,001 pH
Accuracy	±0.002 pH +2 digits
Electrode	
Designation	PCE-PH-LAB-GEN
Measurement range up to	0 ... 14 pH
Temperature range	-5 ... 100 °C
Application	for the chemical, pharmaceutical and food industries
Reference electrolyte	Ag/AgCl with ion exchanger
Shank material	Glass
Shank length	120 mm
Shank diameter	12 mm
Min. immersion depth	22 mm
Cable length	1 m
Redox	
Measurement range up to	-2000 ... +2000 mV
Resolution	1 mV
Accuracy	±2 mV
Temperature sensor	
Measurement range up to	-20 ... +100 °C
Resolution	0,1 °C
Accuracy	±0.5 °C (@ 20 °C)

General technical data	
Measuring functions	MIN, MAX
Connections	BNC
Display type	LCD with backlight
Storage medium	Internal memory
Storage capacity	32 GB
Memory capacity (additional information)	100 recordings with a maximum of 100,000 data points per recording
Storage interval from	1 s
Storage interval to	12 h
Interface	USB-C
Number of calibration points	5
Menu language	Turkish, English, Polish, Spanish, German, Chinese, Russian, Japanese, French, Danish, Italian, Dutch, Portuguese
Protection class (device)	IP52
Power supply	5 V DC, 500 mA
(Rechargeable) battery	1 x 3,7 V internal , Lithium polymer battery
Capacity	2500 mAh
Operating conditions	-20 ... 65 °C , 10 ... 95 % RH
Storage conditions	-20 ... 65 °C , 10 ... 95 % RH
Dimensions (L x W x H)	178 x 85 x 32 mm
Weight	252 g