PCE-PH 228

pH Meter with GLP Data Management / High Accuracy ± 0.002 pH + 2 Digits

The advanced pH meter stands for precision, user-friendliness, and GLP compliance (Good Laboratory Practice). With a high-resolution LCD display, the pH meter provides a clear and concise presentation of measurement values. GLP compliance is ensured through automatic data recording and traceable documentation. It allows measurement of pH or redox value and temperature with external sensors.

A Permanent Measurement Verification (PMV) indicates to the operator, using a color bar, where the measurement value is located within the calibration range, providing insight into whether the measurement is in the correct range. User and sample management enable easy navigation and adjustment of measurement parameters on the pH meter.

ISO cal option

» fast, precise pH and temperature measurement

» redox measurement (with optional electrode)

» GLP data management

» easy 2, 3, 4, and 5-point calibration

» calibration reminder

» permanent Measurement Verification (PMV)

» graphical display of measurement history

» data logger

APPLICATION

TECHNICAL SPECIFICATIONS

pH	
Measurement Range	-2 pH … +20 pH
Resolution	0.001 pH
Accuracy	± 0.002 pH + 2 digits
Electrode	
Designation	PE-03
Measurement Range	+1 pH … +13 pH
Temperature Range	5 … 60 ºC
Application	Aqueous non-corrosive media
Reference Electrolyte	Ag/AgCl
Shaft Material	Epoxy resin
Shaft Length	160 mm
Shaft Diameter	12 mm
Cable Length	1 m
Redox	
Measurement Range	-2000 mV … +2000 mV
Resolution	1 mV
Accuracy	± 2 mV
Temperature Sensor	
Minimum Temperature	-20 ºC
Maximum Temperature	100 ºC
Resolution	0.1 ºC
Accuracy	± 0.5 ºC (@ 20 ºC)
General Technical Data	
Storage Medium	Internal memory
Storage Interval from	1 s
Storage Interval to	12 h
Storage Capacity	32 GB
Storage Capacity	
Additional Information	100 records with a maximum of 100,000 data points per record
Interface	USB-C
Menu Language	German, English, French, Spanish, Italian, Dutch, Portuguese, Turkish, Polish, Russian, Chinese, Danish, Japanese
Protection Class (Device)	IP52
Power Supply	5 V DC, 500 mA
Weight	252 g
Dimensions (L x W x H)	178 x 85 x 32 mm / 7 x 3,3 x 1,2 in
Operating Conditions	-20 … 65 ºC , 10 … 95 % r.H
Storage Conditions	-20 … 65 ºC , 10 … 95 % r.H
Languages of the Manual	German, English

Batteries and Accumulators	
Type	Lithium polymer battery
Lithium Info	Lithium in the product (built-in or included)
Capacity	2500 mAh
Voltage	3.7 V
System	Secondary: Rechargeable battery
Quantity	1

Optional accessories:	
Calibration Solution pH4 and pH7 and pH10	Order no.: PCE-PH4710
Electrode Storage Solution 3mol / l	Order no.: PCE-SSO
pH Electrode IJ-44A	Order no.: IJ-44A
Diaphragm Cleaner with Thiourea	Order no.: PCE-DCS-250
Cleaning solution pepsin / hydrochloric acid	Order no.: PCE-GCS-500
REDOX-Electrode ORP-14	Order no.: ORP-14
Redox Solution +468 mV	Order no.: PCE-RTS-468
Redox Solution +240 mV	Order no.: PCE-RTS-220
Temperature sensor TP-07	Order no.: TP-07
pH-Electrode PE-03	Order no.: PE-03
Food pH-electrode	Order no.: CPC-OSH-12-01

Subject to change without notice