PH METER

PCE-WQS 40



- **Simultaneous measurement of pH and conductivity**
- **High-precision measurement with fast response time**
- **LCD for direct display of measured values**
- **RS485 interface for system integration**
- **Wall mounting**
- **Rugged electrodes for continuous operation**
- **Supply voltage of 9 ... 24V DC**
- **Ideal for water treatment, agriculture, research, and industry**

This high-quality pH meter enables reliable and fast monitoring of important water parameters. With simultaneous measurement of pH and conductivity, the pH meter is ideal for applications in water treatment, plant cultivation, scientific laboratories, and municipal and industrial processes.

The pH meter features a pH measuring range of 0 ... 14 pH with a high resolution of 0.01 pH and an accuracy of ±0.03 pH. Conductivity is measured in the range of 0 ... 5000 µS/cm with a resolution of 0.1 µS/cm and an accuracy of ±1.5% FS. This provides precise measured values for continuous water quality monitoring.

The pH electrode has a rugged plastic shaft with a glass diaphragm and is designed for temperatures from 0 to 60 °C. For easy installation, it features a 3/4-inch male thread on the top and bottom. Connection is made via a BNC plug, while the 5 m connection cable enables flexible installation. The conductivity electrode also consists of a durable plastic shaft and is equipped with a 1/2-inch NPT threaded connection.

Thanks to the integrated 1.26-inch LCD, measured values can be read directly on site. Communication takes place via an RS485 interface, allowing the device to be easily integrated into existing measurement, control, and automation systems. The device is wall-mounted.

Specification

Conductivity	
Measuring range	0 ... 5000 µS/cm
Resolution	0,1 µS/cm
Accuracy	±1.5% FS
pH	
Measuring range	0 ... 14 pH
Resolution	0,01 pH
Accuracy	±0.03 pH
Temperature sensor	
Measuring range	0 ... 60 °C
Resolution	0,1 °C
Accuracy	±0.2°C
Electrode	
Designation	PH (pH electrode)
Temperature range	0 ... 60 °C
Shank material	Plastic
Material of diaphragm	Glass
Shank length	50 mm
Shank diameter	23 mm
Shank diameter additional information	3/4 inch male thread at top and bottom of the electrode
Min. immersion depth	25 mm
Cable length	5 m
Connection	BNC
Dimensions	160 x 28 mm
Electrode	
Designation	EC (conductivity electrode)
Temperature range	0 ... 60 °C
Shank material	Plastic
Shank length	76 mm
Shank diameter	13 mm
Shank diameter additional information	1/2 inch NPT threaded connection
Min. immersion depth	25 mm
Cable length	5 m
Connection	open cable ends
Dimensions	133 x 25 mm

General technical data	
Display type	LCD
Display size	1,26 Inch
Interface	RS485
Response time	45 s
Mounting	wall
Menu language	English (GB), English
Protection class (device)	IP42
Power supply	9 ... 24V DC
Connector type	Loose cables/screw terminals
Operating conditions	0 ... 60 °C , 0 ... 100 % RH
Storage conditions	0 ... 60 °C , 0 ... 100 % RH
Dimensions (W x H x D)	131 x 69 x 50 mm
Weight	113 g