

User Manual

PCE-PH 30 pH Meter



User manuals in various languages (français, taliano, español, português, nederlands, türk, polski, русский, 中文) can be found by using our

product search on: www.pce-instruments.com

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Safety notes

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Please read this manual carefully and completely before you use the device for the first time. The device may only be used by qualified personnel and repaired by PCE Instruments personnel. Damage or injuries caused by non-observance of the manual are excluded from our liability and not covered by our warranty.

• The device must only be used as described in this instruction manual. If used otherwise, this can cause dangerous situations for the user and damage to the meter.

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- The instrument may only be used if the environmental conditions (temperature, relative humidity, ...) are within the ranges stated in the technical specifications. Do not expose the device to extreme temperatures, direct sunlight, extreme humidity or moisture.
- Do not expose the device to shocks or strong vibrations.
- The case should only be opened by qualified PCE Instruments personnel.
- Never use the instrument when your hands are wet.
- You must not make any technical changes to the device.
- The appliance should only be cleaned with a damp cloth. Use only pH-neutral cleaner, no abrasives or solvents.
- The device must only be used with accessories from PCE Instruments or equivalent.
- Before each use, inspect the case for visible damage. If any damage is visible, do not use the device.
- Do not use the instrument in explosive atmospheres.
- The measurement range as stated in the specifications must not be exceeded under any circumstances.
- Non-observance of the safety notes can cause damage to the device and injuries to the user.

We do not assume liability for printing errors or any other mistakes in this manual.

We expressly point to our general guarantee terms which can be found in our general terms of business.

If you have any questions please contact PCE Instruments. The contact details can be found at the end of this manual.

2 Features

- 6 in 1 pH tester
- IP57 housing
- Automatic temperature compensation
- Battery operation
- 3-point pH calibration
- Exchangeable electrodes
- Max-Min hold function
- Automatic electrode recognition



3 Specifications

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Measuring function	рН		
Measurement range	-2 16 pH		
Resolution	0.01 pH		
Accuracy	± 0,01pH + 1 dgt		
ATC	0 90°C / 32 194°F		
Calibration	pH 4, 7, 10		
Measuring function	Redox		
Measurement range	± 1000 mV		
Resolution	1 mV		
Accuracy	± 2 mV + 1 dgt		
Measuring function	Conductivity		
Measuring range	0 2000 µS, 2 20 mS		
Resolution	1 µS, 0.01 mS		
Accuracy	± 2% of measurement range		
ATC	0 50°C / 32 122°F		
Calibration	0 μS, 1413 μS, 12.88 mS		
Measuring function	TDS		
Measurement range	0 1300 ppm, 1.3 13 ppt		
Resolution	1 ppm, 0.01 ppt		
Accuracy	± 2% of measurement range		
ATC	0 50°C / 32 122°F		
Measuring function	Salinity		
Measurement range	0 1000 ppm, 1 12 ppt		
Resolution	1 ppm, 0.01 ppt		
Accuracy	± 2% of measurement range		
ATC	0 50°C / 32 122°F		
Measuring function	Temperature		
Measurement range	0 90°C / 32 194°F		
Resolution	0.1°C / 0.18°F		
Accuracy	± 0.2°C / 0.36°F + 1 dgt		
Display	LCD		
Power supply	4 x 1.5V AAA battery		
Dimensions	195 x 40 x 36 mm / 7.7 x 1.6 x 1.4 in		
Weight	About 135 g / < 1 lb		
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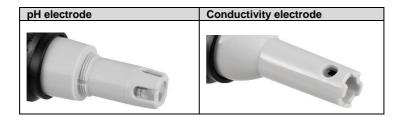
3.1 Delivery contents

1 x pH meter PCE-PH 30 1 x pH electrode 1 x conductivity electrode 1 x pH 4 calibration liquid 1 x pH 7 calibration liquid 1 x tH13 μ S / cm calibration liquid 1 x storage solution 1 x wrist strap 4 x 1.5 V AAA battery 1 x user manual



4 Device







Remove the black protective cap from the device and optionally unscrew the electrode cap if you want to use a different electrode. To change the electrode, you can simply remove it and attach another one.

Note: Do not touch the sensors of the electrodes!

5.1 pH calibration

Since the electrode is subject to a time drift, it should be calibrated regularly. The interval depends on the intended use and the required accuracy.

- Make sure that the pH electrode is mounted and the pH icon is shown on the display. •
- Clean the electrode with distilled water.
- Immerse the electrode in the calibration solution pH 7, stir carefully and wait until the value has stabilized.
- Press and hold the CAL key until "Cal" and the calibration value are displayed. •
- Calibration is performed automatically and is finished when "End" is displayed. The instrument returns to measuring mode.
- Clean the electrode with distilled water.
- Now repeat the calibration with the pH 4 calibration solution.

Notes:

- Always carry out a two-point calibration. Start at pH 7, followed by pH 4 (or 10).
- When not using the pH electrode, always keep the electrode moist with the storage liquid.

5.2 Calibrate conductivity

- 1. Make sure that the conductivity electrode is mounted to the instrument. The display shows COND. TDS or Salt.
- 2. Immerse the conductivity electrode in the 1413µS/cm calibration solution and wait until the measured value has stabilized.
- Press and hold the CAL button until "Cal" is displayed and the calibration value flashes. 3. Calibration is performed automatically and is finished when "End" is displayed. The instrument returns to measuring mode.

Notes:

- A calibration with 12.88mS/cm can also be performed optionally. It is suitable for • measurements with high conductivity.
- If the measured value is not 0µS/cm in air after calibration, calibrate the instrument in air.

5.3 pH measurement

- 1. Clean the pH electrode with distilled water.
- 2. Dip the electrode tip into the liquid to be examined and move the tip slightly back and forth.
- 3. Wait briefly until the display shows a stable pH value.



5.4 Conductivity measurement

- 1. Clean the conductivity electrode with distilled water.
- 2. Dip the electrode tip into the liquid to be examined and move the tip slightly back and forth.
- 3. Wait briefly until the display shows a stable value.

Notes:

- The display shows "----- " if the value exceeds the measurement range.
- The measuring unit changes automatically depending on the measurement range.
- Clean the electrode with distilled water after the measurement.

5.5 Redox measurement

- 1. Make sure that the Redox electrode is mounted on the instrument. The display automatically shows "ORP". Calibration is not necessary but can be performed to check the ORP electrode with the appropriate calibration solution.
- 2. Clean the electrode with distilled water and immerse it in the liquid to be measured.
- 3. Wait for a short time until a stable value is displayed.

Notes:

- The display shows "----- " if the value exceeds the measurement range.
- When not using the electrode, always keep the electrode moist with the storage liquid.
- •

6 Key functions

On/off / calibration key

- 1. Press and release the key to switch the unit on or off.
- 2. Press and hold the key while the instrument is switched on to enter calibration mode.

Measuring key

- 1. Press the key to switch between the measuring functions conductivity, TDS and salinity. **This is only possible with the conductivity electrode!**
- 2. Press and hold the key to toggle between degrees Celsius and degrees Fahrenheit.

Hold/Max&Min key

- 1. Press and release the key to freeze the displayed value.
- 2. Press and hold the key to enter the max/min selection. Press and release the key again to toggle between Max and Min.
- 3. Press and hold the key again to exit the Max/Min mode.

Note:

• The display does not switch off automatically in Max/Min mode.



When the battery icon flashes, replace the batteries as follows:

- 1. Loosen the 2 screws at the top of the battery compartment.
- 2. Open the battery compartment and replace the 4 AAA batteries. Observe correct polarity.
- 3. Close the battery compartment and tighten the screws.

8 Contact

If you have any questions, suggestions or technical problems, please do not hesitate to contact us. You will find the relevant contact information at the end of this user manual.

9 Disposal

For the disposal of batteries in the EU, the 2006/66/EC directive of the European Parliament applies. Due to the contained pollutants, batteries must not be disposed of as household waste. They must be given to collection points designed for that purpose.

In order to comply with the EU directive 2012/19/EU we take our devices back. We either re-use them or give them to a recycling company which disposes of the devices in line with law.

For countries outside the EU, batteries and devices should be disposed of in accordance with your local waste regulations.

If you have any questions, please contact PCE Instruments.





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