

PHOTOMETER

PCE-CP 04



- » **Up to 5 selectable parameters**
- » **Bluetooth connection with app**
- » **Exchangeable and lockable cuvette**
- » **503 nm / 570 nm / 620 nm LED**
- » **Automatic shutdown when inactive**
- » **Many different menu languages**
- » **Light detector: photodiode**
- » **Cuvette: 36 x Ø 21 mm / 3.6 x Ø 2.1 cm (10 ml)**

The multi-parameter photometer is a mobile measuring device for liquid analysis. This enables the most varied of measurements to be carried out with the multi-parameter photometer. With this multi-parameter photometer, for example, it is possible to determine alkalinity, chlorine, cyanuric acid or the pH value. In order to carry out a measurement with the multi-parameter photometer, a water sample of 10 ml must be placed in a cuvette. The built-in LED in the multi-parameter photometer generates a test light in the wavelength ranges of 503 nm, 570 nm and 620 nm. A photodiode now recognizes the value to be measured based on the light transmission of the sample.

Each measurement is automatically saved by the multi-parameter photometer. The stored measured values can then be read out, for example, via a mobile device via the Bluetooth interface built into the multi-parameter photometer. A free app is available to analyze the measured values from the multi-parameter photometer. It is also possible to establish a Bluetooth connection between the multi-parameter photometer and a computer. Free software is also available for this, with which the measurement data can be analyzed. As another special feature of the multi-parameter photometer, the measurement data can be uploaded to a cloud using both variants and accessed from anywhere. This service for the multi-parameter photometer is also free of charge.

Specification

Alkalinity	
Measuring range	0 ... 30 mg/l
Resolution	1 mg/l
Accuracy	3 mg/l
Alkalinity	
Measuring range	30 ... 60 mg/l
Resolution	1 mg/l
Accuracy	7 mg/l
Alkalinity	
Measuring range	60 ... 100 mg/l
Resolution	1 mg/l
Accuracy	12 mg/l
Alkalinity	
Measuring range	100 ... 200 mg/l
Resolution	1 mg/l
Accuracy	18 mg/l
Total hardness	
Measuring range	0 ... 30 mg/l
Resolution	1 mg/l
Accuracy	3 mg/l
Total hardness	
Measuring range	30 ... 60 mg/l
Resolution	1 mg/l
Accuracy	5 mg/l
Total hardness	
Measuring range	60 ... 100 mg/l
Resolution	1 mg/l
Accuracy	10 mg/l
Total hardness	
Measuring range	100 ... 200 mg/l
Resolution	1 mg/l
Accuracy	17 mg/l
Total hardness	
Measuring range	200 ... 300 mg/l
Resolution	1 mg/l
Accuracy	22 mg/l
Total hardness	
Measuring range	300 ... 500 mg/l

General technical data	
Units	mg/l, ppm, mg/l CaCO ³ , mmol/l K _S 4.3, °dH (degree of German hardness), °e (degree of English hardness / Clark degree), °f (degree of French hardness)
Display type	LED
Storage medium	Internal memory
Storage capacity	255 Values
Interface	Bluetooth
Sensor	Photodiode
Automatic power-off	300 s
Light source	530nm/570nm/620nm LED
Number of calibration points	0
Menu language	English, Spanish, German, French, Italian
Protection class (device)	IP21
(Rechargeable) battery	3 x 1,5 V AAA battery , Alkali-manganese
Capacity	1200 mAh
Performance	1,8
Operating conditions	5 ... 45 °C , 20 ... 90 % RH
Storage conditions	5 ... 45 °C , 20 ... 90 % RH
Dimensions (L x W x H)	150 x 75 x 50 mm
Other dimensions	Cuvette: 36 x ø 21 mm (10 ml)
Weight	196,5 g

Resolution	1 mg/l
Accuracy	58 mg/l
Calcium hardness	
Measuring range	0 ... 25 mg/l
Resolution	1 mg/l
Accuracy	8 mg/l
Calcium hardness	
Measuring range	25 ... 100 mg/l
Resolution	1 mg/l
Accuracy	22 mg/l
Calcium hardness	
Measuring range	100 ... 300 mg/l
Resolution	1 mg/l
Accuracy	34 mg/l
Calcium hardness	
Measuring range	300 ... 500 mg/l
Resolution	1 mg/l
Accuracy	45 mg/l
pH	
Measuring range	6,5 ... 8,4 pH
Resolution	0,01 pH
Accuracy	0.11 pH