DIGITAL REFRACTOMETER

PCE-DRS 2



- **fast and precise measurement results**
- **large LCD (reading and temperature)**
- **waterproof ABS housing IP 65**
- **automatic temperature compensation**
- **small amount of the sample**
- **simple calibration with the distilled water**

Handheld Digital Refractometer Salinity (Salt Content) / Chlorine
The digital salinity refractometer from PCE Instruments has been specially designed to perform a precise analysis of aqueous solutions. Thus, with the help of the salinity refractometer, the user can carry out uncomplicated quality controls and determine, for example, the proportion of sodium chloride in the liquid foods or the salt content in aquariums.

The salinity refractometer is a precision measuring instrument based on the measurement of the refractive index of a liquid. With the help of the salt content refractometer, the user can measure the salt concentration in a liquid already in a small amount of sample. To get a meaningful result, it is sufficient to drip a few drops of liquid into the stainless-steel tray of the meter. In the sample tray a prism is enclosed, and by means of refraction, the salt content is measured in this way. The integrated light source in the digital salinity refractometer prevents measurement errors that in an analogue salinity refractometer, are quickly triggered by the artificial light such as fluorescent lamps. The measurement result is quickly and accurately shown on the large, easy-to-read LC display of the salinity refractometer after automatic temperature compensation (1 to 4 ° C). The user of the refractometer can also choose between different measuring units: salinity (to 1. %), chlorine content (to 57 %), specific density (1.

Specification

Refractive index	
Measuring range	1,333 ... 1,353 nD
Resolution	0,0001 nD
Accuracy	0.0003 nD
Salt content	
Measuring range	0 ... 100 ‰
Resolution	1 ‰
Accuracy	2 ‰
Density	
Measuring range	1 ... 1,07
Resolution	0,001
Accuracy	±0.002
Chloride content	
Measuring range	0 ... 57 ‰
Resolution	1 ‰
Accuracy	±2‰
Temperature	
Measuring range	0 ... 40 °C
Resolution	0,1 °C
Accuracy	±0.5°C

General technical data	
Temperature compensation NEW	automatic 10 ... 40 °C
Display Typ	LCD
Response time	1 s
Automatic power-off	1 min.
Housing	ABS
Sample quantity	4 ... 5 drops
Sample tray	Stainless steel ring with glass prism
Menu language	English (US), English (GB)
Protection class (device)	IP65
Battery/battery	1 x 1,5 V AAA Battery (1,5V) , Alkali-Manganese
Battery capacity	1200 mAh
Operating conditions	10 ... 40 °C , 0 ... 80 %RH
Storage conditions	-10 ... 50 °C , 0 ... 80 %RH
Dimensions (L x W x H)	121 x 58 x 25 mm
Weight	90 g