DIGITAL REFRACTOMETER

PCE-DRD 1



- **quick and accurate measurement in approx. 1 s**
- **large LC display (measured value and temperature)**
- **easy to use (1-key operation)**
- **small sample volume**
- **simple calibration with distilled water**
- **automatic temperature compensation**
- **stainless steel sample holder with glass prism**
- **automatic power-off after 1 min of inactivity**

Our digital refractometer is a waterproof device and determines the percentage of sodium chloride in water with a measurement range of 0 to 28 % NaCl. The measurement result and the temperature of the sample are shown in two lines on the LCD display of the digital refractometer. The digital refractometer can measure various parameters such as salinity (%NaCl) and refractive index quickly and accurately with just four to five drops of the sample. The digital refractometer has a wide range of applications: checking the salt content in food, salt water tanks, brines, etc. It is ideal for the food industry for salt control and compliance with regulations.

The funnel-shaped stainless steel ring protects the glass prism from damage, into which the liquid sample to be measured is placed. The internal light source enables measurement under poor lighting conditions. Our digital refractometer is supplied in a rugged plastic case with pipette and charging cable.

Specification

Refractive index	
Measuring range	1,333 ... 1,42 nD
Resolution	0,0001 nD
Accuracy	±0.0003 nD
Salinity	
Measuring range	0 ... 28 %
Resolution	0,1 %
Accuracy	±0.2 %
Temperature	
Measuring range	0 ... 40 °C
Resolution	0,1 °C
Accuracy	±0.5 °C

General technical data	
Temperature compensation	automatic 10 ... 40 °C
Display type	LCD
Measuring rate	1 Hz
Automatic power-off	60 s
Sample quantity	0,2 ... 0.3 ml
Menu language	English
Protection class (device)	IP65
Power supply	5V DC, 500mA
(Rechargeable) battery	1 x 3,7 V LP562438 , Lithium-ion polymer battery
Capacity	500 mAh
Performance	1,85 Wh
Operating conditions	0 ... 50 °C , 0 ... 95 % RH
Storage conditions	0 ... 50 °C , 0 ... 95 % RH
Dimensions (L x W x H)	145 x 46 x 27 mm
Weight	115 g

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