

HANDHELD DIGITAL REFRACTOMETER SALINITY

PCE-DRS 1



- » **Measurement parameters: Salt content, refractive index, specific gravity,**
- » **temperature**
- » **Automatic temperature compensation (ATC) from +10 ... +40 °C / +50 ... +104**
- » **°F**
- » **Handheld and portable**
- » **User-friendly 3-button operation**
- » **Fast and precise measuring results in approx. 1 sec.**
- » **ABS plastic housing with IP65 ingress protection rating against water and**
- » **dust**
- » **Large, easy-to-read digital LCD shows both the measured value and the**
- » **temperature**

PCE-DRS 1 Handheld Digital Refractometer

PCE-DRS 1 is a handheld digital sodium chloride (NaCl) refractometer used to determine the salinity or salt content (%), specific gravity (SG) and refractive index (nD) of liquid. This waterproof IP65-rated digital refractometer features automatic temperature compensation (ATC) from +10 ... +40 °C / +50 ... +104 °F, as well as a large, easy-to-read LCD that shows both the measured value and the temperature.

Fields of application

The great wonder of science that through one phenomenon it becomes possible to study and determine the other. The bending of light which formed the basis in the creation of a famous nowadays device refractometer, made it possible to study, check and analyze the content of many different products and materials. Salinity of liquids is one of them. By means of the salinity refractometer it is possible in no time at all, to clearly understand how much salt this or another liquid contains. Portable small devices may be applied anywhere where the check of the salt content is required. For example, all those who allow having such a joy at home as the fish tank may be sure that with the help of the salinity refractometer, the salt content

Specification

Refractive index	
Measuring range	1,333 ... 1,39 nD
Resolution	0,0001 nD
Accuracy	0.0003 nD
Salinity	
Measuring range	0 ... 28 ‰
Resolution	0,1 ‰
Accuracy	0.2 ‰
Salinity	
Measuring range	0 ... 280 ‰
Resolution	1 ‰
Accuracy	2‰
Density	
Measuring range	1 ... 1,217
Resolution	0,001
Accuracy	0.002
Temperature	
Measuring range	0 ... 40 °C
Resolution	0,1 °C
Accuracy	±0.5 °C

in the water will always be on the correct level. Excessive amounts of salt may be terminally dangerous to certain fish types, and the device is a perfect way to prevent such problems.

General technical data	
Temperature compensation	automatic 10 ... 40 °C
Display type	LCD
Response time	1 s
Automatic power-off	1 min
Housing	ABS (acrylonitrile-butadiene-styrene copolymers)
Sample quantity	4 ... 5 drops
Sample tray	Stainless steel ring with glass prism
Menu language	English, English (GB)
Protection class (device)	IP65
(Rechargeable) battery	1 x 1,5 V AAA battery , Alkali-manganese
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)	125 x 62 x 28 mm
Weight	144 g