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## Technical Refractometer PCE-DRS 1

# PCE-DRS 1 Handheld Digital Refractometer IP65-rated salinity or salt content (%, ‰) / specific gravity (SG) / refractive index (nD) refractometer with easy-to-read LCD

PCE-DRS 1 is a handheld digital refractometer used to determine the salinity or salt content (%, ‰), specific gravity (SG) and refractive index (nD) of liquid. This IP65-rated digital refractometer features automatic temperature compensation (ATC) from  $+10 \dots +40 \,^{\circ}\text{C} / +50 \dots +104 \,^{\circ}\text{F}$ , as well as a large, easy-to-read LCD that shows both the measured value and the 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
- Average function measures same sample 15 times and displays the mean value
- Stainless-steel ring on sample well protects glass prism from damage
- Internal light source for improved accuracy
- Small liquid sample size of just 4 to 5 drops
- Easy calibration with distilled water
- Battery-saving automatic power off after 1 min. of inactivity

#### Technical specifications:

#### Measuring range

0 ... 28 %, 0 ... 280 % salinity (salt content)
1.000 ... 1.217 SG (specific gravity)
1.3330 ... 1.3900 nD (refractive index)
0 ... +40 °C / +32 ... +104 °F temperature

#### Resolution

0.1%, 1 % /  $0.001 SG / 0.0001 nD / <math>0.1 \degree$ 

#### **Accuracy**

 $\pm 0.2$  %,  $\pm 2$  ‰ /  $\pm 0.002$  SG /  $\pm 0.0003$  nD /  $\pm 0.5$  °C

## **General specifications**

Automatic temperature compensation (ATC) range:  $+10 \dots +40 \, ^{\circ}\text{C} \, / \, +50 \dots \, +104 \, ^{\circ}\text{F}$ 

Measurement speed: Approx. 1 sec. Sample size: 4 to 5 drops of liquid

Sample well: Stainless steel ring over glass prism

Housing: ABS plastic, IP65 ingress protection rating against water and dust

Power supply: 1 x 1.5V AAA battery

Dimensions: Approx. 121 x 58 x 25 mm / 4.76 x 2.28 x 0.98"

Weight: Approx. 90 g / 0.2 lb (without battery)

# **Delivery contents:**

1 x PCE-DRS 1 handheld digital refractometer

1 x pipette

1 x prism cover

1 x 1.5V AAA battery

1 x user manual

1 x carrying case