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Technical Refractometer PCE-DRS 2

PCE-DRS 2 Handheld Digital Refractometer

IP65-rated salinity or salt content (‰) / chloride content (‰) / specific gravity (SG) / refractive index (nD) refractometer with easy-to-read LCD

PCE-DRS 2 is a handheld digital refractometer used to determine the salinity or salt content (‰), chloride content (‰), specific gravity (SG) and refractive index (nD) of liquid. This 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.

- 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 ... 100 ‰ salinity (salt content)
0 ... 57 ‰ chloride content
1.000 ... 1.070 SG (specific gravity)
1.3330 ... 1.3530 nD (refractive index)
0 ... +40 °C / +32 ... +104 °F temperature

Resolution

1 ‰ / 0.001 SG / 0.0001 nD / 0.1 °

Accuracy

$\pm 2 \text{ ‰}$ / $\pm 0.002 \text{ SG}$ / $\pm 0.0003 \text{ nD}$ / $\pm 0.5 \text{ °C}$

General specifications

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

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. $121 \times 58 \times 25 \text{ mm}$ / $4.76 \times 2.28 \times 0.98 \text{ ″}$

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

Delivery contents:

1 x PCE-DRS 2 handheld digital refractometer

1 x pipette

1 x prism cover

1 x 1.5V AAA battery

1 x user manual

1 x carrying case