DIGITAL REFRACTOMETER

PCE-DRC 1



- **Measurement parameters: Coolant or antifreeze (ethylene glycol), propylene glycol, battery acid, cleaning supplies, 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**

A handheld digital refractometer used to determine the specific gravity (sg) of electrolyte solution batteries as well as the freezing point of propylene or ethylene glycol-based coolants. Maintaining the proper antifreeze concentration in an engine can prevent costly repairs. Thus, this tool is used worldwide by trucking and automotive technicians to ensure proper dilution. The refractometer works well for measuring cleaning products too. 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.
Close lid before measuring

Fields of application
The task of any serious producer is providing good quality and safety, the wish of the user is to get a reliable product /mechanism with a long-term service life. Avoiding faults and failures is the mutual desire of both sides. Refractometer for coolants,batteries and cleaners.Application of auxiliary devices, like, in this case, coolant refractometer, incredibly reduces the

Specification

Ethylene glycol	
Measuring range	-50 ... 0 °C
Resolution	0,1 °C
Accuracy	±0.5 °C
Propylene glycol	
Measuring range	-50 ... 0 °C
Resolution	0,1 °C
Accuracy	±0.5 °C
Cleaning agent	
Measuring range	-40 ... 0 °C
Resolution	0,1 °C
Accuracy	±0.5 °C
Battery acid	
Measuring range	1 ... 1,5 SG
Resolution	0,001 SG
Accuracy	±0.005 SG
Temperature	
Measuring range	0 ... 40 °C
Resolution	0,1 °C
Accuracy	±0.5°C

risks of equipment failure, deterioration of the quality during the manufacturing processes. Modern powerful equipment often causes extreme heating of the substances and liquids and application of low-quality coolants and anti-freezers leads guaranteed to failures and quick wear-out.

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)	125 x 62 x 28 mm
Weight	144 g