HANDHELD DIGITAL REFRACTOMETER COOLANTS / BATTERIES

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**

PCE-DRC 1 Handheld Digital Refractometer
>PCE-DRC 1 is 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. Application of auxiliary devices, like, in this case, coolant refractometer,

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 agents	
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

incredibly reduces the 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	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

PCE Instruments UK Ltd.
Chester Rd, Old Trafford Suite 1N-B, Trafford House, M32 0RS Manchester
Great Britain

Phone: +44 (0) 161 464902 0
info@pce-instruments.co.uk