BRIX REFRACTOMETER

PCE-DRB 1



- **Measurement parameters: Brix, refractive index, 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**

Handheld Digital Brix Refractometer
PCE-DRB 1 is a brix refractometer used to determine the sugar content / refractive index of liquid in the 0 ... 90 % Brix / 1.3330 ... 1.5177 nD measuring range. This waterproof IP65-rated brix 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.

Brix refractometer, as the name indicates, is used for determination of sugar content in liquid solutions, for example, beverages, wine or juices. This is a method of quick measurement of sucrose (% by weight) in a certain liquid. The brix refractometer may be applied not only in the laboratory or at the enterprise, but also in the household, for accurate measurement of sugar level in the self-made drinks and syrups. Brix value is the main parameter that indicates the quality of the final product. Brix refractometer is simple in its operation and it provides the user with the information about the amount of solids (sucrose) dissolved, and thus, indicates the level of juice or drink concentration. In the products containing certain amount of acids, it is important to maintain the correct balance between sugar and acid, so that the taste characteristics match the

Specification

Brix	
Measuring range	0 ... 90 % Brix
Resolution	0,1 % Brix
Accuracy	0.2 % Brix
Refractive index	
Measuring range	1,333 ... 1,5177 nD
Resolution	0,0001 nD
Accuracy	0.0003 nD
Temperature	
Measuring range	0 ... 40 °C
Resolution	0,1 °C
Accuracy	±0.5 °C

demand of the customer.

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