DIGITAL REFRACTOMETER

PCE-DRH 1



- **Measurement parameters: Brix, water content, degrees Baumé (Bé°), 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**
- **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 sugar content / water content / degrees Baumé (Bé°) / refractive index of honey in the 0 ... 90% Brix / 5 ... 38% water / 33 ... 48 Bé° / 1.3330 ... 1.5177 nD measuring range. 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.

Honey refractometer is a real weapon in the hands of the professional honey-makers, since it helps to fight against bad-quality product that may reach the customer. In fact, it helps to carry out the structural analysis of the substance, in particular, honey, and determine the presence or absence of the required elements in the required proportions in the honey. Not only honey-makers may use this device as a perfect auxiliary tool during the production of honey, but also those who are regular honey consumers or sellers, since by carrying out a quick and easy test with the help of the honey refractometer, they may avoid purchasing and consuming low-quality product containing

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
Water content	
Measuring range	5 ... 38 %
Resolution	0,1 %
Accuracy	±0.2%
Density	
Measuring range	33 ... 48 °Bé
Resolution	0,1 °Bé
Accuracy	±0.2°Bé
Temperature	
Measuring range	0 ... 40 °C
Resolution	0,1 °C
Accuracy	±0.5°C

additives, extra sugar or excessive moisture fraction. Though, numerous honey kinds exist, in the ISO catalogue, separate paragraphs are dedicated to the bee products. So, to meet the official requirements, the producers should provide that all the honey parameters correspond to the accepted standards.

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