HANDHELD DIGITAL REFRACTOMETER SUGARS

PCE-DRB 2



- **Measurement parameters: Dextran, fructose, glucose, lactose, maltose,**
- **temperature**
- **Automatic temperature compensation (ATC) from +10 ... +40 °C / +50 ... +104**
- **°F**
- **Handheld and portable**
- **User-friendly 3-button operation**

PCE-DRB 2 is a handheld digital refractometer used to determine the refractive index and dextran, fructose, glucose, lactose and maltose content (%) 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.

Refractometer is a multifunctional device, which by measuring refractive index is able to measure various parameters and in particular, sugar content in various liquids. Fructose level is one of the parameters, along with sucrose, glycose, invert sugars, which refractometer measure within seconds and very accurately. Knowing the level of fructose allows making conclusions about the quality and ripeness of the products, like different kinds of fruit. The optimal time of harvesting may be now determined not only by means of optical analysis and tasting, but also by means of application a fructose refractometer. The level of fructose in the fruits changes with the time, and it is important to determine the best time with the optimal fructose content so that not only to deliver the best fruits to the consumers, but also to provide the best material for juices and jams production. In its natural condition, fructose is presented mostly in plants and fruits, in the industrial sphere; fructose is obtained from certain plants and is affected by lime.

Specification

Brix	
Measuring range	0 ... 68,9 % 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

General technical data	
Temperature compensation	automatic 10 ... 40 °C
Display type	LCD
Response time	1 s
Measured medium	Dextran, Fructose, Glucose, Lactose, Maltose
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