# DIGITAL REFRACTOMETER

## PCE-DRC 2




- **Precise measurement results in seconds**
- **Large LCD (measurement and temperature)**
- **Waterproof ABS housing IP 65**
- **Automatic temperature compensation**
- **Small amount of sample**
- **Simple calibration with distilled water**
- **Stainless steel sample well with glass prism**
- **Easy operation with three buttons**
- **Battery control system**
- **Automatic switch-off after 1 minute measurement pause**

The most convenient way to determine how much sugar is in a liquid is with a digital Brix sugar refractometer. The digital Brix sugar refractometer from PCE Instruments is a hand-held measuring device that has been specially designed to carry out a precise analysis of sugar-containing solutions. In this way, with the support of the Brix Sugar Refractometer, the user can carry out an uncomplicated quality control and check the sugar concentration in a liquid.

The Brix unit of measurement is mainly used in the fruit industry and determines the relative density of liquids. The Brix Sugar Refractometer is a precision measuring instrument based on measuring the refractive index of a liquid and guarantees maximum reliability even under difficult measuring conditions. With the help of the Brix refractometer, the user can already measure the sugar content in a liquid with a small amount of sample. In order to obtain a meaningful result, it is sufficient to trickle four to five drops into the funnel-shaped stainless steel recess of the measuring device. A prism is mounted in the sample well, and the sugar content is measured in this way by means of light refraction. Brix sugar refractometer with an apple.The internal light source also allows measurements under artificial light conditions. Artificial light can quickly cause measurement errors when using an analogue Brix sugar refractometer. The ambient temperature has a major influence on the measurement result.

## Specification

| Brix | |
|---|---|
| Measuring range | 0 ... 50 %Brix |
| Resolution | 0,1 %Brix |
| Accuracy | 0.2 % Brix |
| **Refractive index** | |
| Measuring range | 1,333 ... 1,42 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 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 |