

# DIGITAL REFRACTOMETER

PCE-DRF 6



- » **quick and accurate measurement in approx. 1 s**
- » **large LC display (measured value and temperature)**
- » **easy to use (1-key operation)**
- » **small sample volume**
- » **simple calibration with distilled water**
- » **automatic temperature compensation**
- » **stainless steel sample holder with glass prism**
- » **automatic power-off after 1 min of inactivity**

Our digital refractometer determines the percentage of potassium carbonate in aqueous media with a measurement range of 0 to 51 %. The measurement result and the temperature of the sample are shown in two lines on the LCD display of the digital refractometer. The digital refractometer can measure various parameters such as percentage and refractive index quickly and accurately with just four to five drops of the sample. Our digital refractometer has a wide range of applications: it can be used to control the potassium carbonate content in glass and ceramic production, in the manufacture of fertilisers and in the food industry, among others.

The funnel-shaped stainless steel ring protects the glass prism from damage, into which the liquid sample to be measured is placed. The internal light source enables measurement under poor lighting conditions. Our digital refractometer is supplied in a rugged plastic case with pipette and charging cable.

## Specification

### Refractive index

Measurement range up to 1,333 ... 1,465 nD

Resolution 0,0001 nD

Accuracy  $\pm 0,0003$  nD

### Potassium carbonate

Measurement range up to 0 ... 51 %

Resolution 0,1 %

Accuracy  $\pm 0,2$  %

### Temperature

Measurement range up to 0 ... 40 °C

Resolution 0,1 °C

Accuracy  $\pm 0,5$  °C

### General technical data

Temperature compensation automatic 10 ... 40 °C

Display type LCD

Measuring rate 1 Hz

Automatic power-off 1 min

Sample quantity 0,2 ... 0,3 ml

Menu language English, English (GB)

Protection class (device) IP65

Power supply 5V DC, 500mA

Weight 115 g

Operating conditions 0 ... 50 °C, 0 ... 95 % RH

Storage conditions 0 ... 50 °C, 0 ... 95 % RH

Capacity 500 mAh

Dimensions ( L x W x H ) 145 x 46 x 27 mm