



Transport and storage case



Rear view, screw-on battery compartment cover

Digital measurement of refraction index for universal application

Features

- The KERN ORM refractometers are accurate and universal maintenance free digital handheld refractometers
- They are characterized by their easy-using and robustness
- The typical and practical design is suitable for a quick and convenient everyday use
- The large, easy-to-read display with integrated temperature display supports the user to reliably determine the measurement
- The integrated automatic temperature compensation (ATC), avoids the manual conversion of the measurement. This allows a quick and efficient usage of the instrument
- Rapid, user-friendly calibration of the refractometer is possible at any time using standard commercial distilled water
- The refractometers from the KERN ORM range are protected to international IP65 protection class, against dust and water splashes. After use, you can rinse the refractometer under running water
- Mean value measurements possible
- The following accessory-parts are included:
 - Prism cover lid
 - Pipette
 - Storage box
 - 1 × AAA battery
 - Screwdriver

Technical data

- Measurement temperature: 0 °C – 40 °C
- Overall dimensions W×D×H 121×58×25 mm
- Net weight approx. 289 g
- Power supply: 1 × AAA (1,5 V)
- Lifetime of the battery: approx. 10.000 measurements
- ATC (Automatic Temperature Compensation 0 °C – 40 °C)
- Minimum sample volume: 4 drops
- Automatic energy management (AUTO-OFF after 60 seconds)
- Mean value measurement (15 measurements)

Accessories

- Calibration liquid

Note: Also available with calibration certificate

STANDARD

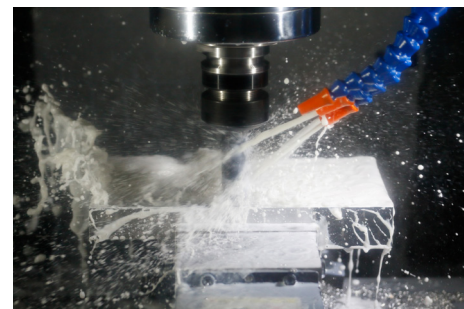


Scope of application: Basic measurements for Brix and refractive index

The following models are particularly suitable for basic measurement where the result is required in Brix or refractive index. They are used to determine the sugar content in food or for monitoring processes in the industry (coolant monitoring, water-based mixtures). Alternatively the display can be switched to show Brix or the refractive index.

The main scope of applications is:

- Industry: Monitoring of lubricants in machines and quality control
- Food industry: Beverages, fruits and sweets
- Agriculture: Determination of the degree of ripeness of fruit for quality control in harvesting
- Restaurants and large-scale catering establishment



Model	Scales	Measuring range	Accuracy	Division
KERN				
ORM 50BM	Brix	0 – 50 %	± 0,2 %	0,1 %
	Refractive index	1,3330 – 1,4200 nD	± 0,0003 nD	0,0001 nD
ORM 1RS	Brix	0 – 90 %	± 0,2 %	0,1 %
	Refractive index	1,3330 – 1,5177 nD	± 0,0003 nD	0,0001 nD

Scope of application: Sugar

The following models are particularly suitable for direct measurement of different types of sugar. These are used to determine the content of the respective type of sugar in water-based liquids. It is possible to switch between the four different scales.

The main scope of applications is:

- Food industry: Beverages, fruits and sweets
- Agriculture: Determination of the degree of ripeness of fruits for quality control in harvesting, determination of colostrum milk quality
- Restaurants and large-scale catering establishment



Model	Scales	Measuring range	Accuracy	Division
KERN				
ORM 1SU	Fructose	0 – 69 %	± 0,2 %	0,1 %
	Glucose	0 – 60 %	± 0,2 %	0,1 %
	Brix	0 – 90 %	± 0,2 %	0,1 %
	Refractive index	1,3330 – 1,5177 nD	± 0,0003 nD	0,0001 nD
ORM 2SU	Lactose	0 – 17 %	± 0,2 %	0,1 %
	Maltose	0 – 16 %	± 0,2 %	0,1 %
	Dextran	0 – 11 %	± 0,2 %	0,1 %
	Brix	0 – 50 %	± 0,2 %	0,1 %