



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, see page 106

STANDARD



Scope of application: Honey

The following model is particularly suitable for the measurement of the water content in honey according to the International Honey Commission (IHC2002) and “degrees Baumé” to determine the relative density of liquids. Alternatively the display can be switched to show Brix or the refractive index.

The main scope of applications is:

- Beekeeping
- Honey production



Model	Scales	Measuring range	Accuracy	Division
KERN				
ORM 1HO	Water content	5 – 38 %	± 0,2 %	0,1 %
	Baumé	33 – 48 °Bé	± 0,2 °Bé	0,1 °Bé
	Brix	0 – 90 %	± 0,2 %	0,1 %
	Refractive index	1,3330 – 1,5177 nD	± 0,0003 nD	0,0001 nD

Scope of application: Salt

The following models are particularly suitable to determine the concentration of NaCl (salt) in water and seawater. This is often used for the preparation and for the cooking of sauces, bases for pastries, the production of brines (e.g. for white cheese) and the preparation of seafood and marinades for meat. Alternatively the display can be switched to show Brix or the refractive index.

The main scope of applications is:

- Food industry
- Restaurants, and large-scale catering establishment, canteens
- Fisch farm



Model	Scales	Measuring range	Accuracy	Division
KERN				
ORM 1NA	Salt content (NaCl) %	0 – 28 %	± 0,2 %	0,1 %
	Salt content (NaCl) ‰	0 – 280 ‰	± 2 ‰	1 ‰
	Salt content (specific gravity)	1,000 – 1,220	± 0,002	0,001
	Brix	0 – 50 %	± 0,2 %	0,1 %
ORM 1SW	Refractive index	1,3330 – 1,4200 nD	± 0,0003 nD	0,0001 nD
	Salt content seawater	0 – 100 ‰	± 2 ‰	1 ‰
	Chlorine content seawater	0 – 57 ‰	± 2 ‰	1 ‰
	Salt content (specific gravity)	1,000 – 1,070	± 0,002	0,001
	Brix	0 – 50 %	± 0,2 %	0,1 %
Refractive index	1,3330 – 1,4200 nD	± 0,0003 nD	0,0001 nD	