



Also available with calibration certificate, see page 110!

Refractive index measurement for laboratories and the industry



Features

- The KERN ORA refractometers are universal, maintenance-free analogue handheld refractometers
- The handy and robust design allows the easy, efficient and sustainable use in everyday life
- Manually calculated conversions and errors of the user are avoided by multiple selectable scales
- These scales are especially developed, exactly calculated and checked. They are also characterized by their thin and clear lines
- The optical system and the prism cover are made of special material which allows a low-tolerance measuring
- All ORA models are equipped with an eyepiece for easy and smooth setting for many different diopter strengths
- The models marked with "ATC" have an automatic temperature compensation which enables accurate measurement at different ambient temperatures (10 °C/30 °C)
- The following accessory-parts are included:
 - Storage box
 - Calibration liquid
 - Calibration block (if required)
 - Pipette
 - Screwdriver
 - Cleaning tissue
- Further accessories are optionally available

Technical data

- Die-cast housing of copper-aluminium alloy, chrome coated
- Measurement temperature without ATC: 20 °C
- Measurement temperature range with ATC: 10 °C/30 °C
- Dimensions of the box: 205×75×55 mm (depending on the model)
- Product length: approx. 130 – 200 mm (depending on the model)
- Net weight approx. 135 – 600 g (depending on the model)

Scope of application: Sugar

The following models are particularly suitable for the measurement of the “BRIX” value. They are used to determine the sugar content in food, especially in fruit, vegetables, juice and soft drinks. In the same ideal way these refractometers serve for monitoring processes in the industry (coolant monitoring, oils, water-based mixtures).

The main scope of applications is:

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



Model	Scales	Measuring range	Division	ATC	Price excl. of VAT ex works €
KERN					
ORA 10BB	Brix	0 - 10 %	0,1 %		80,-
ORA 10BA	Brix	0 - 10 %	0,1 %	✓	85,-
ORA 18BB	Brix	0 - 18 %	0,1 %		80,-
ORA 20BB	Brix	0 - 20 %	0,1 %		80,-
ORA 20BA	Brix	0 - 20 %	0,1 %	✓	85,-
ORA 32BB	Brix	0 - 32 %	0,2 %		80,-
ORA 32BA	Brix	0 - 32 %	0,2 %	✓	85,-
ORA 62BB	Brix	28 - 62 %	0,2 %		80,-
ORA 62BA	Brix	28 - 62 %	0,2 %	✓	85,-
ORA 82BB	Brix	45 - 82 %	0,5 %		80,-
ORA 80BB	Brix	0 - 80 %	0,5 %		80,-

Scope of application: Honey

The following models are particularly suitable for the measurement of the “BRIX” value, as well as the water content in honey and “degrees Baumé” to determine the relative density of liquids.

The main scope of applications is:

- Beekeeping
- Honey production



Model	Scales	Measuring range	Division	ATC	Price excl. of VAT ex works €
KERN					
ORA 3HB	Brix Baumé Water content	58 - 92 % 38 - 43 °Bé 12 - 27 %	0,5 % 0,5 °Bé 1 %		85,-
ORA 3HA	Brix Baumé Water content	58 - 92 % 38 - 43 °Bé 12 - 27 %	0,5 % 0,5 °Bé 1 %	✓	90,-
ORA 6HB	Water content	12 - 30 %	0,1 %		95,-
ORA 6HA	Water content	12 - 30 %	0,1 %	✓	100,-