PROFESSIONAL MEASURING
SINCE 1844

KERN

Product brochure

31.10.2026

KERN ORA 1WA

Refractive index measurement for laboratories and the industry

ENGLISH



CONTACT

KERN & SOHN GmbH
Ziegelei 1
72336 Balingen
Germany

+49 7433 9933-0
info@kern-sohn.com
www.kern-sohn.com





ENGLISH

FEATURES

- The models in the KERN ORA-W range are universal, maintenance-free analogue manual 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 especailly developed, exactly calculated and checked. They are also characterized by their thin and clear lines.
- The temperature compensation ("ATC") enables accurate measurement at different ambient temperatures (10 °C to 30 °C)
- The optical system and the prism cover are made of special material which allows a low-tolerance measuring.
- NEW: With engraved serial number
- All models are fitted with an eyepiece which can be adjusted easily and smoothly to different visual capacities
- Included with the delivery:
  - Storage box
  - Calibration solution
  - Pipette
  - Screwdriver
  - Cleaning cloth
- Further accessories are available optionally.
- This model is particularly suitable for the measurement of the content of sugar in fruits. It indicates the expected °Alcohol of the fruit. The degree of ripeness of fruit (fruit-sugar) can also be determined, such as e.g. grapes.

MAIN SCOPE OF APPLICATIONS

- Agriculture: Wine-growing and fruit-growing
- Wine-production
- Must and alcohol production

TECHNICAL DATA

- Die-cast housing of copper-aluminium alloy, chrome coated
- Measurement temperature range: 10 °C – 30 °C
- Dimensions of the box W×D×H 205×75×55 mm
- Overall dimensions W×D×H 212×910×60 mm
- Net weight approx. 0,20 kg

PICTOGRAMS

Standard



Option



ACCESSORIES

Model	Description
OCS-A1101	Cleaning liquid OCS-A1101
ORA-A1010	Calibration liquid ORA-A1010 (distilled water, 3 ml, 5 pieces)
ORA-A1101	Prismatic flap ORA-A1101
ORA-A2103	Leather cover ORA-A2103

ENGLISH

KERN Pictogram Overview



Automatic temperature compensation (ATC): For measurements between 10 °C and 30 °C



Package shipment by courier service: The duration of internal product provision is one day



Factory calibration for refractometers: The refraction index standard can be reverted back to SRM from NIST and PTB