PROFESSIONAL MEASURING
SINCE 1844

KERN

Product brochure

30.10.2026

KERN ORM 1CO

Digital measurement of refraction index for universal application

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 KERN ORM refractometers are accurate and universal maintenance free digital handheld refractometers
- The typical and practical design is suitable for a quick and convenient everyday use and is characterized by its easy-using and robustness
- With their handy design, they are ideal for convenient and rapid 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
- A quick and user-friendly calibration of the refractometer is possible at any time using commercially available distilled water
- The refractometers of the KERN ORM series are protected against dust and splash water according to the international protection class IP65. You can rinse the refractometer under running water after use
- Mean value measurements possible
- Included with the delivery:
  - prism cover
  - pipette
  - storage box
  - 1 × AAA battery
  - user instruction
- The following models are particularly suitable for measuring dissolved solids in liquids (TDS) in coffee, in order to be able to determine and compare the strength of a cup of coffee. For roasting houses, the TDS % value is used to determine the solubility of a roasting process and check the quality. You can also choose to display Brix or the refraction index.

MAIN SCOPE OF APPLICATIONS

- Coffee industry
- Coffee roasting plants
- Coffee competitions

TECHNICAL DATA

- Measurement temperature range: 0 °C – 40 °C
- ATC (Automatic temperature compensation)
- Minimum sample volume: 4 drops
- Mean value measurement (15 measurements)
- Power supply: 1 × AAA (1,5 V)
- Lifetime of the battery: 10000 measurements
- Automatic energy management (AUTO-OFF after 60 sec)
- Overall dimensions W×D×H 121×58×25 mm
- Net weight approx. 0,15 kg

PICTOGRAMS

Standard



Option



ACCESSORIES

Model	Description
ORA-A1010	Calibration liquid ORA-A1010 (distilled water, 3 ml, 5 pieces)

KERN Pictogram Overview

	Automatic temperature compensation (ATC): For measurements between 10 °C and 30 °C
	Protection against dust and water splashes IP65
	Battery operation: Ready for battery operation
	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