

DIGITAL REFRACTOMETERS TYPE: HAND-HELD

Laboratory | Industry | Food Industry





KERN Pictograms



Abbreviations

C-Mount	Adapter for the connection of a camera to a trinocular microscope	SLR camera	Single-Lens Reflex camera
FPS	Frames per second	SWF	Super Wide Field (Field number at least Ø23 mm for 10× eyepiece)
H(S)WF	High (Super) Wide Field (Eyepiece with high eye point for wearers of glasses)	W.D.	Working Distance
LWD	Long Working Distance	WF	Wide Field (Field number up to Ø22 mm for 10× eyepiece)
N.A.	Numerical Aperture		

KERN Models A-Z

OAB-L	108
OBE-12 · OBE-13	12
OBE-S	
OBL-12 · OBL-13	14
OBL-14 · OBL-15	
OBL-S · OBN-S	66
OBN-13 · OBN-15	18
OBN-14 🚾	20
OBS-1	8
OBT-1 · OBT-2 🏧	10
OCM-1	
OCS-9	24
ODC-24	88
ODC-25 🔤	
ODC-82 · ODC-83 · ODC-84	85
ODC-85 · ODC-86	
ODC-87 · ODC-88 · ODC-89	87
OIV-2	
OIV-3 · OIV-9 🔤	60
OIV-6	63
OKM-1	
ОКО-1	
OLM-1	
OPO-1	33
ORA	92-98
ORL-B	92-98 105
ORL-B ORM	92-98 105 99-104
ORL-B ORM OSE-4 · OZL-9 · OZM-9	92-98 105 99-104 71
ORL-B ORM OSE-4 · OZL-9 · OZM-9 OSE-42	92-98 105 99-104 71 36
ORL-B ORM OSE-4 · OZL-9 · OZM-9 OSE-42 OSF-43	92-98 105 99-104 71 36 38
ORL-B ORM OSE-4 · OZL-9 · OZM-9 OSE-42 OSF-43 OXM-9	92-98 105 99-104 71 36 38 90
ORL-B ORM OSE-4 · OZL-9 · OZM-9 OSE-42 OSF-43 OXM-9 OZB-H	92-98 105 99-104 71 36 38 90 81
ORL-B ORM OSE-4 · OZL-9 · OZM-9 OSE-42 OSF-43 OXM-9 OZB-H OZB-IR	92-98 105 99-104 71 36 38 90 81 83
ORL-B ORM OSE-4 · OZL-9 · OZM-9 OSE-42 OSF-43 OXM-9 OZB-H OZB-IR OZB-M	92-98 105 99-104 71 36 38 90 81 83 74
ORL-B	92-98 105 99-104 71 36 38 90 81 83 74 80
ORL-B	92-98 105 99-104 71 36 38 90 81 83 74 80 79
ORL-B	92-98 105 99-104 71 36 38 90 81 83 74 80 79 56
ORL-B	92-98 105 99-104 71 36 38 90 81 83 74 80 79 56 40
ORL-B	92-98 105 99-104 71 36 38 90 81 83 74 80 79 56 40 46
ORL-B	92-98 105 99-104 71 36 38 90 81 83 74 80 79 56 40 46 48
ORL-B	92-98 105 99-104 71 36 38 90 81 83 74 80 79 56 40 46 48
ORL-B	92-98 105 99-104 71 36 38 90 81 83 74 80 79 56 40 46 48
ORL-B	92-98 105 71 36 38 38 90 81 83 74 80 79 56 40 48 42 44 67
ORL-B	92-98 105 71 36 38 38 80 74 80 74 80 74 40 46 42 44 67 50
ORL-B	92-98 105 71 36 38 90 81 83 74 80 74 56 40 46 48 42 44 67 50 70
ORL-B	92-98 105 99-104 71 36 38 90 81 83 74 80 74 56 40 46 46 44 67 50 70 68
ORL-B	92-98 105 99-104 71 36 38 90 81 83 74 80 74 56 40 46 46 44 67 50 70 68

New model

KERN Customer Consultants

With questions about our products and services, we will be happy to advise you:

UK, BE, IE, IS, LU, NL



Maren Neff Tel. +49 7433 9933-132 Mobil +49 151 46143240 maren.neff@kern-sohn.com

PL, LV, LT, EE, SK, CZ, HU



Mark Hauder Tel. +49 7433 9933-310 Mobil +49 160 3378426 mark.hauder@kern-sohn.com

SL, HR, AL, MK, BG, BA, ME, RO, GR, CY, GUS



Ariana Sevcenco Tel. +49 7433 9933-203 Mobil +49 151 72434692 ariana.sevcenco@kern-sohn.com

North America, Near- & Middle East, Africa, Asia, Oceania, TR



Corinna Matthes Tel. +49 7433 9933-215 Mobil +49 151 44568364 corinna.matthes@kern-sohn.com

KERN Hotlines

Technical questions about our products?		
You will find assistance here quickly: +49 7433 9933		
Service-Hotline	→ 199	
for general technical questions about your KERN product		
Optical Devices	→777	
for all technical questions concerning our microscopes,		
microscope cameras, refractometers, etc.		
Laboratory and Analytical Balances	→444	
for all technical questions concerning our high quality precision balances,		
analytical balances (especially with electromagnetic force-compensated		
measuring systems, tuning fork and high application density)		
SAUTER Measuring Instruments	→555	
for all technical questions concerning our SAUTER measuring instruments,		
test benches, force measuring accessories (clamps etc.), SAUTER software		
System Solutions Industry 4.0	→200	
for all technical questions concerning the interlocking of the latest		
information and communication technology with our scales, load cells		
and measuring devices as well as questions about KERN software		

Calibration and Verification Service

for any questions concerning our calibration and verification service

Technical sales KERN Optics



Ralf Gutbrod Tel. +49 7433 9933-306 optics@kern-sohn.com

Category Manager KERN Optics



Nicole Lebherz Tel. +49 7433 9933-201 optics@kern-sohn.com

Sales & Marketing Manager



→ 196





Transport and storage case



Rear view, screw-on battery compartment cover

Digital refractive index measurement for laboratories and the industry for multi-application ► Laboratory refractometer

Features

- The models in the KERN ORL range are accurate, universal and maintenance-free digital desktop refractometers
- Other key features are the extra-large measuring range and a high degree of accuracy
- With their handy design, they are ideal for convenient and rapid everyday use
- The large, easy-to-read multi-function 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
- Mean value measurement (15 measurements)
- The follwoing accessory-parts are included:
- Pipette
- Storage box
- USB cable
- Power adapter
- Screwdriver

Technical data

- Measurement temperature: 0 °C 40 °C
- Overall dimensions W×D×H 180×100×55 mm
- Net weight approx. 365 g (without battery)
- Power supply: USB connection, as an alternative 1 × battery 3.7 V 3000 mA (not included with delivery)
- ATC (Automatic Temperature Compensation)
- Minimum sample volume: 0,3-0,4 ml
- Automatic energy management
 (AUTO-OFF after 3 Minutes)
- Mean value measurement (15 measurements)

13

Accessories

- Rechargeable Battery 3,7 V 3000 mA, KERN ORL-A2007, € 65,-
- ORA-A1010 Calibration liquid

Note: Also available with calibration certificate, see page 106

exc	890,-
ATC USB 2.0 1 DAY ACCUINT	cl. of VAT ex works €
STANDARD OPTION	Price

The oldest Precision Balance Factory in Germany

KERN & SOHN GmbH

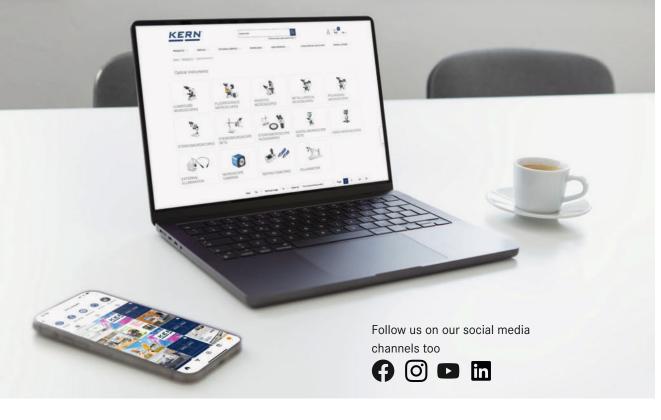
Balances, Test Weights, Microscopes, DAkkS Calibration Laboratory

Ziegelei 1 72336 Balingen Germany Tel. +49 7433 9933-0 info@kern-sohn.com www.kern-sohn.com

Discover the multifaceted World of Balances, Microscopes and Measuring Technology from KERN online: www.kern-sohn.com

- → Full KERN & SAUTER Product Range
- \rightarrow Convenient 24/7 Ordering
- → Selection of more than 5,000 Items across Weighing and Measuring Technology, Optical Instruments as well as Accessories and Services
- → Extensive Information and useful Download Options
- \rightarrow Technical Product Data Sheets
- → Operating Instructions
- → Descriptive Image and Video Material

- \rightarrow Useful KERN Services
- → Technical Glossary
- → KERN Dealer Portal
- \rightarrow Practical Filter and Search Functions









Printed in Germany by KERN & SOHN GmbH z-co-en-kp-20251