

MANUAL POLARIMETERS

Laboratory | Industry | Food Industry



PROFESSIONAL MEASURING



2025

KERN Pictograms

 360° rotatable microscope head	 Fluorescence illumination for compound microscopes With 100 W mercury lamp and filter	 Integrated scale In the eyepiece	 Battery operation Ready for battery operation. The battery type is specified for each device.
 Monocular Microscope For the inspection with one eye	 Fluorescence illumination for compound microscopes With 3 W LED illumination and filter	 SD card For data storage	 Rechargeable battery pack Rechargeable set
 Binocular Microscope For the inspection with both eyes		 USB 2.0 interface For data transmission	 Plug-in power supply 230V/50Hz in standard version for EU. On request GB, AUS or USA version.
 Trinocular Microscope For the inspection with both eyes and the additional option for the connection of a camera	 Phase contrast unit For a higher contrast	 USB 3.0 interface For data transmission	
 Abbe Condenser With high numerical aperture for the concentration and the focusing of light	 Darkfield condenser/unit For a higher contrast due to indirect illumination	 WIFI data interface: For transmitting of the picture to a mobile display device	 Integrated power supply unit Integrated in microscope. 230V/50Hz standard EU. More standards e.g. GB, AUS or USA on request.
 Halogen illumination For pictures bright and rich in contrast	 Polarising unit To polarise the light	 HDMI digital camera For direct transmitting of the picture to a display device	
 LED illumination Cold, energy-saving and especially long-life illumination	 Infinity system Infinity corrected optical system	 PC software To transfer the measurements from the device to a PC.	 Package shipment The time required to manufacture the product internally is shown in days in the pictogram.
 Incident illumination For non-transparent objects	 Zoom magnification For stereomicroscopes	 Automatic temperature compensation For measurements between 10 °C and 30 °C	
 Transmitting illumination For transparent objects	 Auto-focus For automatic control of the focus level	 Protection against dust and water splashes IPxx: The type of protection is shown in the pictogram cf. DIN EN 60529:2000-09, IEC 60529:1989+A1:1999 +A2:2013	 Pallet shipment The time required to manufacture the product internally is shown in days in the pictogram.
 Fluorescence illumination For stereomicroscopes	 Parallel optical system For stereomicroscopes, enables fatigue-proof working		

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 Ø 23 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 Ø 22 mm for 10× eyepiece)
N.A.	Numerical Aperture		

KERN Models A – Z

OAB-L 108

OBE-12 · OBE-13 12

OBE-S 65

OBL-12 · OBL-13 14

OBL-14 · OBL-15 16

OBL-S · OBN-S 66

OBN-13 · OBN-15 18

OBN-14 NEW 20

OBS-1 8

OBT-1 · OBT-2 NEW 10

OCM-1 22

OCS-9 24

ODC-24 88

ODC-25 NEW 89

ODC-82 · ODC-83 · ODC-84 85

ODC-85 · ODC-86 86

ODC-87 · ODC-88 · ODC-89 87

OIV-2 62

OIV-3 · OIV-9 NEW 60

OIV-6 63

OKM-1 26

OKO-1 28

OLM-1 30

OPO-1 33

ORA 92-98

ORL-B 105

ORM 99-104

OSE-4 · OZL-9 · OZM-9 71

OSE-42 36

OSF-43 38

OXM-9 90

OZB-H 81

OZB-IR 83

OZB-M 74

OZB-UE 80

OZB-UP 79

OZG-4 56

OZL-44 40

OZL-45 46

OZL-45R 48

OZL-46 42

OZL-47 44

OZL-S 67

OZM-5 50

OZM-9 70

OZM-S · OZP-S 68

OZP-5 52

OZS-5 54

NEW 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



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KERN Hotlines



Technical questions about our products?

You will find assistance here quickly: +49 7433 9933 - ...

Service-Hotline

for general technical questions about your KERN product

→ 199

Optical Devices

for all technical questions concerning our microscopes, microscope cameras, refractometers, etc.

→ 777

Laboratory and Analytical Balances

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)

→ 444

SAUTER Measuring Instruments

for all technical questions concerning our SAUTER measuring instruments, test benches, force measuring accessories (clamps etc.), SAUTER software

→ 555

System Solutions Industry 4.0

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

→ 200

Calibration and Verification Service

for any questions concerning our calibration and verification service

→ 196



The ideal helper for getting started with the analysis of your optically active solutions in the laboratory

Features

- The KERN OAB 10LN is a manual polarimeter which is characterised by its ergonomic design and easy handling
- The powerful 589 nm sodium vapour lamp is the optimum light source to produce a linear, polarised beam of light
- The 1° scale division including Nonius (0.05°) enables precise definition of the angle of rotation of the substance to be observed
- To hold liquid samples, two glass cuvettes (100 mm/200 mm) are included with the delivery
- Included with delivery:
Sodium vapour lamp, 100 mm glass cuvette, 200 mm glass cuvette, replacement lenses and sealing rings for cuvettes

Technical data

- Light source: Sodium vapour lamp (589 nm)
- Stabilisation time: 10 mins after switching on
- Total dimensions W×D×H
430×140×310 mm
- Net weight approx. 3,5 kg

STANDARD



Scope of application: Laboratory/Education

The reliable polarimeters in the OAB-L range have been designed for simple laboratory applications as well as practical training. You can evaluate liquid, optically-active samples with chiral characteristics with this device. Typical applications are determining kinetics in cane sugar inversion, determining mutarotation of glucose and investigation of starch hydrolysis. The optical rotation is measured in degrees.

The main scope of applications is:

- Pharmacy
- Sugar industry: for example cane sugar
- Beverage industry
- Food industry
- Chemical industry
- Laboratories
- Training



Cuvette in measuring chamber

Model	Scales	Measuring range	Division	Vernier	Wave length	Price excl. of VAT ex works €
KERN						
OAB 10LN	Optical rotation	± 180°	1°	0,05°	589 nm	920,-

! ONLY WHILE STOCKS LAST

Accessory parts: OAB

Model	Description	Price excl. of VAT ex works €
KERN		
OAB-A2501	Glass cuvette, Length: 100 mm (Spare part)	110,-
OAB-A2502	Glass cuvette, Length: 200 mm (Spare part)	110,-
OAB-A2581	Sodium vapour lamp, Wave length: 589 mm (Spare part)	120,-



Cuvette 100mm and 200mm

The oldest Precision Balance Factory in Germany

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