

KERN ORL 94BS

Digital measurement of refraction index for universal application



Construction	
Dimension (W×D×H)	180×100×55 mm
Refractometer type	Desktop refractometer
Scale - Display type	Digital

Functions	
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min
Interfaces	USB 2.0
IP protection - complete device	IP43
Automatic temperature compensation	✓

Power Supply	
Input voltage power supply / power [Max]	100 - 240 V AC 50/60 Hz 0,35 A
Input voltage device / power [Max]	5 V DC 2,0 A
Supplied power supply	Power supply unit
Plug-in power supply / adapter for countries - included with the delivery	EURO
Plug-in power supply / adapter for countries - optional	EURO UK
Battery connection	Pad + Spring

Environmental conditions	
Storage temperature [Min]	-5 °C
Storage temperature [Max]	40 °C

Packing & Shipping	
Dimensions transport container (W×D×H)	300×150×100 mm
Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	300×150×100 mm
Net weight	0,365 kg
Shipping method	Parcel service
Net weight approx.	0,40 kg
Gross weight approx.	1,00 kg
Shipping weight	1 kg

Services (optional)	
Article number for factory calibration	961-290

Category	
Brand	Optics
Product category	Refractometer
Product group	Digital refractometer
Product family	ORL-B

Measuring System	
Automatic temperature compensation (ATC)	✓
Measuring method	Total reflection
Area of application	Basic measurements for Brix and refractive index
Appropriate calibration liquid	0 % (distilled water)
Measurement temperature [Min] (°C)	0 °C
Measurement temperature [Max] (°C)	40 °C
Brix scale	✓
Readout Brix	0,1 %
Measuring range Brix [Min]	0 %
Measuring range Brix [Max]	94 %
Accuracy Brix	±0,1 %
Scale for Refractive index	✓
Readout refractive index	0,0001 nD
Measuring range refractive index [Min]	1,3330 nD
Measuring range refractive index [Max]	1,5290 nD
Accuracy refractive index	±0,0002 nD

Approval	
CE mark	✓

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Pictograms

STANDARD



OPTION

