

KERN ORM 1RS

Digital measurement of refraction index for universal application

KERN



Accuracy refractive index $\pm 0,0003$ nD

Construction

Dimension (W×D×H)	121×58×25 mm
Refractometer type	Handheld refractometer
Scale - Display type	Digital
Prism lid	✓
Material prism	ZLaF3 lanthanum flint glass nd=1.85544

Functions

Averaging measurement	✓
Averaging measurement amount	15
IP protection - complete device	IP65
Auto-off interval(s) in battery mode/rechargeable battery mode	60 sec

Power Supply

Supplied power supply	Battery
Battery / accumulator type	Alkali(-Manganese)
Battery connection	Pad + Spring
Battery capacity	1.300 mAh
Battery voltage	1,5 V

Environmental conditions

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

Approval

CE mark	✓
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Services (optional)

Article number for factory calibration	961-290
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Packing & Shipping

Dimensions transport container (W×D×H)	170×110×50 mm
Delivery time	1 d
Dimensions packaging (W×D×H)	170×110×50 mm
Shipping method	Parcel service
Net weight approx.	0,15 kg
Gross weight approx.	0,35 kg
Shipping weight	0,31 kg

Category

Brand	Optics
Product category	Refractometer
Product group	Digital refractometer
Product family	ORM-R

Measuring System

Area of application	Basic measurements for Brix and refractive index
Measuring method	Total reflection
Automatic temperature compensation (ATC)	✓
Scales	Refractive index Brix
Measuring ranges	1,3330 nD - 1,5177 nD 0,0 % - 90,0 %
Readabilities [d]	0,0001 nD 0,1 %
Precision	0,0003 nD 0,2 %
Appropriate calibration liquid	0 % (distilled water)
Measurement temperature [Min] (°C)	0 °C
Measurement temperature [Max] (°C)	40 °C
Brix scale	✓
Measuring range Brix [Min]	0 %
Measuring range Brix [Max]	90 %
Readout Brix	0,1 %
Accuracy Brix	$\pm 0,2$ %
Scale for Refractive index	✓
Measuring range refractive index [Min]	1,3330 nD
Measuring range refractive index [Max]	1,5177 nD
Readout refractive index	0,0001 nD

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Pictograms

STANDARD

