

KERN ORM 1AL

KERN

Digital measurement of refraction index for universal application



Category

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

Measuring System

Measurement temperature [Min] (°C)	0 °C
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Percentage by volume	0-80%(v/v) @ 1%(v/v) ± 1%(v/v)
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Measurement temperature [Max] (°C)	40 °C
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Precision	0,0003 nD
	0,2 %
	1 %(w/w)
	1 %(v/v)

Measuring method	Total reflection
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Measuring range Brix [Min]	0 %
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Scales	Refractive index
	Brix
	Masspercentage
	Volume percent
Measuring ranges	1,3330 nD - 1,4200 nD
	0,0 % - 50,0 %
	0 %(w/w) - 72 %(w/w)
	0 %(v/v) - 80 %(v/v)

Readabilites [d]	0,0001 nD
	0,1 %
	1 %(w/w)
	1 %(v/v)

Readout Brix	0,1 %
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Automatic temperature compensation (ATC)	✓
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Accuracy Brix	±0,2 %
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Scale volume percentage	✓
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Measuring range refractive index [Min]	1,3330 nD
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Measuring range refractive index [Max]	1,4200 nD
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Readout refractive index	0,0001 nD
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Accuracy refractive index	±0,0003 nD
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Scale for Refractive index	✓
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Measuring range percent by mass [Min]	0 %
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Measuring range percent by mass [Max]	72 %
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Readout percent by mass	1 %
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Accuracy percent by mass	±1 %
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Scale percent by mass	✓
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Measuring range volume percentage [Min]	0 %
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Measuring range volume percentage [Max]	80 %
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Readout volume percentage	1 %
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Accuracy volume percentage	±1 %
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Appropriate calibration liquid	0 % (distilled water)
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Measuring range Brix [Max]	50 %
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Brix scale	✓
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Area of application	Alcohol
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Construction

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

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

Supplied power supply	Battery
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Power supply cable removable	removable
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Battery / accumulator type	Alkali(-Manganese)
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Battery connection	Pad + Spring
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Battery capacity	1.300 mAh
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Battery voltage	1,5 V
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Battery - Number of cells	1
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Battery – Individual weight	11,5 g
Battery – Total weight	11,5 g
Battery – Construction	Individual cells
Battery capacity (Wh)	1,95 Wh
Battery – Lithium content	0 g
Battery/Accu connected	not connected, enclosed

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

Product information

GTIN/EAN number	4045761335424
Trade number	90275000
REACH classification	no prohibited substances

Pictograms

STANDARD

