

KERN ORM 2WN



Digital measurement of refraction index for universal application



Date of creation: 11.07.2026

Category

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

Measuring System

Percentage by volume	0,0-22,0%(v/v) @ 0,1% (v/v) ± 0,2%(v/v)
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Scales	Brix
	Oechsle
	KMW (Babo)
	Volume percent

Measurement temperature [Max] (°C)	40 °C
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Measurement temperature [Min] (°C)	0 °C
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Readabilities [d]	0,1 %
	1 °Oe
	0,1 °KMW
	0,1 %(v/v)

Precision	0,2 %
	2 °Oe
	0,2 °KMW
	0,2 %(v/v)

Appropriate calibration liquid	0 % (distilled water)
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Measuring method	Total reflection
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Automatic temperature compensation (ATC)	✓
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Scale volume percentage	✓
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Measuring range KMW (Babo) [Min]	0 °KMW
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Measuring range KMW (Babo) [Max]	25 °KMW
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Readout KMW (Babo)	0,1 °KMW
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Accuracy KMW (Babo)	±0,2 °KMW
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Measuring range Oechsle [Min]	0 °Oe
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Measuring range Oechsle [Max]	230 °Oe
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Scale KMW (Babo)	✓
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Readout Oechsle	1 °Oe
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Accuracy Oechsle	±2 °Oe
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Scale Oechsle	✓
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Measuring range volume percentage [Min]	0 %
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Measuring range volume percentage [Max]	22 %
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Readout volume percentage	0,1 %
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Accuracy volume percentage	±0,2 %
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Measuring ranges	0,0 % - 50,0 %
	0,0 °Oe - 230,0 °Oe
	0,0 °KMW - 25,0 °KMW
	0,0 %(v/v) - 22,0 %(v/v)

Area of application	Wine
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Accuracy Brix	±0,2 %
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Readout Brix	0,1 %
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Measuring range Brix [Min]	0 %
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Measuring range Brix [Max]	50 %
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Brix scale	✓
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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
Battery – Number of cells	1
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
Shipping volume weight	0,2 kg

Product information

ATTR_warrantyTime	24 mon
Trade number	90275000
GTIN/EAN number	4045761335622

Pictograms

STANDARD



OPTION

