

KERN ORM 1WN



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)
Scales	Brix
	Oechsle
	KMW (Babo)
	Volume percent
Measurement temperature [Max] (°C)	40 °C
Measurement temperature [Min] (°C)	0 °C
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)
Measuring method	Total reflection
Automatic temperature compensation (ATC)	✓
Scale volume percentage	✓
Measuring range KMW (Babo) [Min]	0 °KMW
Measuring range KMW (Babo) [Max]	25 °KMW

Readout KMW (Babo)	0,1 °KMW
Accuracy KMW (Babo)	±0,2 °KMW
Measuring range Oechsle [Min]	0 °Oe
Measuring range Oechsle [Max]	150 °Oe
Scale KMW (Babo)	✓
Readout Oechsle	1 °Oe
Accuracy Oechsle	±2 °Oe
Scale Oechsle	✓
Measuring range volume percentage [Min]	0 %
Measuring range volume percentage [Max]	22 %
Readout volume percentage	0,1 %
Accuracy volume percentage	±0,2 %
Measuring ranges	0,0 % - 50,0 %
	0,0 °Oe - 150,0 °Oe
	0,0 °KMW - 25,0 °KMW
	0,0 %(v/v) - 22,0 %(v/v)
Area of application	Wine
Accuracy Brix	±0,2 %
Readout Brix	0,1 %
Measuring range Brix [Min]	0 %
Measuring range Brix [Max]	50 %
Brix scale	✓

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
Power supply cable removable	removable
Battery / accumulator type	Alkali(-Manganese)
Battery connection	Pad + Spring
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	4045761335585

Pictograms

STANDARD



OPTION

