

KERN ORM 1CO

Digital measurement of refraction index for universal application

KERN



Measuring range refractive index [Max]	1,4200 nD
Readout refractive index	0,0001 nD
Accuracy refractive index	±0,0003 nD
Scale coffee TDS 1	✓
Measuring range coffee TDS 1 [Min]	0 %
Measuring range coffee TDS 1 [Max]	25 %
Readout coffee TDS 1	0,1 %
Accuracy coffee TDS 1	±0,2 %

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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Category

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

Measuring System

Area of application	Coffee
Measuring method	Total reflection
Automatic temperature compensation (ATC)	✓

Scales	Refractive index Brix Kaffee TDS 1
Measuring ranges	1,3330 nD - 1,4200 nD 0,0 % - 50,0 % 0,0 - 25,0

Readabilities [d]	0,0001 nD 0,1 % 0,1
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Precision	0,0003 nD 0,2 % 0,2
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Appropriate calibration liquid	0 % (distilled water)
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Measurement temperature [Min] (°C)	0 °C
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Measurement temperature [Max] (°C)	40 °C
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Brix scale	✓
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Measuring range Brix [Min]	0 %
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Measuring range Brix [Max]	50 %
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Readout Brix	0,1 %
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Accuracy Brix	±0,2 %
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Scale for Refractive index	✓
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Measuring range refractive index [Min]	1,3330 nD
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Packing & Shipping

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

STANDARD

