

KERN ORM 1HO

Digital measurement of refraction index for universal application

KERN



Category

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

Measuring System

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

Scales	Refractive index
	Brix
Measuring ranges	Baumé
	Water content
Readabilities [d]	1,3330 nD - 1,5177 nD
	0,0 % - 90,0 %
Precision	33,0 °Bé - 48,0 °Bé
	5,0 % - 38,0 %
Appropriate calibration liquid	0,0001 nD
	0,1 %
Measurement temperature [Min] (°C)	0,1 °Bé
	0,1 %
Measurement temperature [Max] (°C)	0,0003 nD
	0,2 %
Brix scale	0,2 °Bé
	0,2 %
Measuring range Brix [Min]	0 % (distilled water)
	0 °C
Measuring range Brix [Max]	40 °C
	✓
Readout Brix	0 %
	90 %
	0,1 %

Accuracy Brix	±0,2 %
Scale for Baumé	✓
Measuring range Baumé [Min]	33 °Bé
Measuring range Baumé [Max]	48 °Bé
Readout Baumé	0,1 °Bé
Accuracy Baumé	±0,2 °Bé
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
Accuracy refractive index	±0,0003 nD
Scale water content	✓
Measuring range water content [Min]	5 %
Measuring range water content [Max]	38 %
Readout water content	0,1 %
Accuracy water content	±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

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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
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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

