

KERN ORM 1CO

Digital measurement of refraction index for universal application

KERN



Category

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

Measuring System

Measurement temperature [Min] (°C)	0 °C
Measurement temperature [Max] (°C)	40 °C
Precision	0,0003 nD 0,2 % 0,2
Measuring method	Total reflection
Measuring range Brix [Min]	0 %
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
Readout Brix	0,1 %
Automatic temperature compensation (ATC)	✓
Accuracy Brix	±0,2 %
Measuring range refractive index [Min]	1,3330 nD
Measuring range refractive index [Max]	1,4200 nD
Readout refractive index	0,0001 nD
Accuracy refractive index	±0,0003 nD
Scale for Refractive index	✓

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 %
Scale coffee TDS 1	✓
Appropriate calibration liquid	0 % (distilled water)
Measuring range Brix [Max]	50 %
Brix scale	✓
Area of application	Coffee

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
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

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Approval

CE mark ✓

Services (optional)

Article number for factory calibration 961-290

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 4045761335493

REACH classification no prohibited substances

Pictograms

STANDARD

