

KERN ORM 1BR

Digital measurement of refraction index for universal application

KERN



Category

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

Measuring System

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

Scales

Refractive index
Brix
Stammwürze (Bier)
Plato

Measuring ranges

1,3330 nD - 1,4200 nD
0,0 % - 50,0 %
1,000 SG Wort - 1,130
SG Wort
0,0 °P - 30,5 °P

Readabilities [d]

0,0001 nD
0,1 %
0,001 SG Wort
0,1 °P

Precision

0,0003 nD
0,2 %
0,002 SG Wort
0,3 °P

Appropriate calibration liquid 0 % (distilled water)

Measurement temperature [Min] (°C) 0 °C

Measurement temperature [Max] (°C) 40 °C

Brix scale ✓

Measuring range Brix [Min] 0 %

Measuring range Brix [Max] 50 %

Readout Brix 0,1 %

Accuracy Brix	±0,2 %
Scale for Refractive index	✓
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 Plato	✓
Measuring range Plato [Min]	0 °P
Measuring range Plato [Max]	31 °P
Readout Plato	0,1 °P
Accuracy Plato	±0,3 °P
Scale original hopped wort (specific gravity)	✓
Measuring range original hopped wort (specific gravity) [Min]	1,000
Measuring range original hopped wort (specific gravity) [Max]	1,130
Readout original hopped wort (specific gravity)	0,001
Accuracy original hopped wort (specific gravity)	±0,002

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
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Storage temperature [Max] 40 °C

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

Pictograms

STANDARD

