

KERN ORM 2SU



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-SU

Measuring System

Scales	Brix Laktose (Milchzucker) Maltose (Malzzucker) Dextran
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Measurement temperature [Max]
(°C) 40 °C

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

Readabilities [d]
0,1 %
0,1 %
0,1 %
0,1 %

Precision
0,2 %
0,2 %
0,2 %
0,2 %

Appropriate calibration liquid 0 % (distilled water)

Measuring method Total reflection

Automatic temperature
compensation (ATC) ✓

Measuring range dextran [Min] 0 %

Measuring range dextran [Max] 11 %

Readout dextran 0,1 %

Accuracy dextran ±0,2 %

Scale for dextran ✓

Measuring range lactose (milk
sugar) [Min] 0 %

Measuring range lactose (milk
sugar) [Max] 17 %

Readout lactose (milk sugar) 0,1 %

Accuracy lactose (milk sugar) ±0,2 %

Measuring range maltose (malt
sugar) [Min] 0 %

Measuring range maltose (malt
sugar) [Max] 16 %

Readout maltose (malt sugar) 0,1 %

Accuracy maltose (malt sugar) ±0,2 %

Scale lactose (milk sugar) ✓

Scale maltose (malt sugar) ✓

Measuring ranges
0,0 % - 50,0 %
0,0 % - 16,5 %
0,0 % - 15,6 %
0,0 % - 10,6 %

Area of application Sugar

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	4045761335608

Pictograms

STANDARD



OPTION

