KERN **ORT 1RS**

Measurement of refraction index for chemists, laboratories and industry



Date of creation: 24.10.2026

Category	
Brand	Optics
Product category	Refractometer
Product group	Abbe refractometer
Product family	ORT-1

Measuring System	
Scales	Refractive index Brix
Measurement temperature [Max] (°C)	20 °C
Measurement temperature [Min] (°C)	20 °C
Readabilites [d]	0,0005 nD 0,25 %
Precision	0,0002 nD 0,1 %
Appropriate calibration liquid	Alpha-bromonaphthalene
Calibration block required	✓
Measuring method	Light refraction Total reflection
Measuring range refractive index [Min]	1,3000 nD
Measuring range refractive index [Max]	1,7000 nD
Readout refractive index	0,0005 nD
Accuracy refractive index	±0,0002 nD
Scale for Refractive index	✓
Measuring ranges	1,3000 nD - 1,7000 nD 0 % - 95 %
Area of application	Basic measurements for Brix and refractive index
Accuracy Brix	±0,1 %
Readout Brix	0,25 %
Measuring range Brix [Min]	0 %
Measuring range Brix [Max]	95 %
Brix scale	✓

Construction	
Dimension (W×D×H)	180×90×240 mm
Refractometer type	Desktop refractometer
Scale - Display type	Analogue

Power Supply	
Supplied power supply	Battery
Battery / accumulator type	Li-Metal
Battery	1×LR44
Battery capacity	38 mAh
Battery voltage	3 V
Battery – Number of cells	1
Battery – Individual weight	1 g
Battery – Total weight	1 g
Battery – Construction	Individual cells
Battery capacity (Wh)	0,114 Wh
Battery – Lithium content	12 mg
Battery – Tests passed UN 38.3	✓
Battery/Accu connected	fixed electrical connection, not insulated

Environmental conditions	
Storage temperature [Min]	-5 °C
Storage temperature [Max]	40 °C

Services (optional)	
Article number for factory calibration	961-290

Packing & Shipping	
Delivery time	1 d
Dimensions packaging (W×D×H)	380×265×160 mm
Shipping method	Parcel service
Net weight approx.	1,8 kg
Gross weight approx.	2,4 kg
Shipping weight	3,2 kg
Shipping volume weight	3,2 kg

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Product information

GTIN/EAN number	4045761476240
Trade number	90275000
Warranty Time	36 mon
REACH classification	no prohibited substances

Pictograms

STANDARD



OPTION

