KERN **ORA 1RE**

Refractive index measurement for laboratories and the industry



Date of creation: 13.11.2026

Category	
Brand	Optics
Product category	Refractometer
Product group	Analogue refractometer
Product family	ORA-E

Measuring System	
Scales	Refractive index
Measurement temperature [Max] (°C)	30 °C
Measurement temperature [Min] (°C)	10 °C
Readabilites [d]	0,005 nD 0,005 nD 0,005 nD
Appropriate calibration liquid	0 % (distilled water)
Measuring method	Light refraction Total reflection
Measuring range refractive index [Min]	1,333 nD
Measuring range refractive index [Max]	1,405 nD
Readout refractive index	0,005 nD
Scale for Refractive index	✓
Measuring range refractive index II [Min]	1,405 nD
Measuring range refractive index II [Max]	1,468 nD
Readout refractive index II	0,005 nD
Measuring range refractive index III [Min]	1,468 nD
Measuring range refractive index III [Max]	1,517 nD
Readout refractive index III	0,005 nD
Measuring ranges	1,333 nD - 1,405 nD 1,405 nD - 1,468 nD 1,468 nD - 1,517 nD
Area of application	Expert applications

Construction	
Dimension (W×D×H)	200×40×40 mm
Refractometer type	Handheld refractometer
Scale - Display type	Analogue
Material prism	ZLaF3 lanthanum flint glass nd=1.85544

Functions	
IP protection - complete device	-

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

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

Packing & Shipping	
Dimensions transport container (W×D×H)	215×190×55 mm
Delivery time	1 d
Dimensions packaging (W×D×H)	230×200×65 mm
Shipping method	Parcel service
Net weight approx.	0,95 kg
Gross weight approx.	1,2 kg
Shipping weight	1,01 kg
Shipping volume weight	0,6 kg

Product information	
GTIN/EAN number	4045761159907
Trade number	90275000
Warranty Time	24 mon
REACH classification	no prohibited substances

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Pictograms

STANDARD



OPTION

