KERN **ORA 1SA**

Refractive index measurement for laboratories and the industry



Date of creation: 24.10.2026

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

Measuring System	
Scales	spec. gravity Salinity
Measurement temperature [Max] (°C)	30 °C
Measurement temperature [Min] (°C)	10 °C
Readabilites [d]	0,001 sg 1 ‰
Appropriate calibration liquid	0 % (distilled water)
Measuring method	Light refraction
Automatic temperature compensation (ATC)	✓
Measuring range salinity (NaCl) ‰ [Min]	0 ‰
Measuring range salinity (NaCl) ‰ [Max]	100 ‰
Readout salinity (NaCl) ‰	1 ‰
Measuring range salinity (spec. weight) [Min]	1,000
Measuring range salinity (spec. weight) [Max]	1,070
Scale salinity (NaCl) ‰	✓
Readout salinity (spec. weight)	0,001
Scale salinity (spec. weight)	✓
Measuring ranges	1,000 sg - 1,070 sg 0 ‰ - 100 ‰
Area of application	Salt

Construction	
Dimension (W×D×H)	198×40×40 mm
Refractometer type	Handheld refractometer
Scale - Display type	Analogue
Material prism	ZLaF3 lanthanum flint glass nd=1.85544

Functions	
IP protection - complete device	-
Automatic temperature compensation	✓

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)	205×75×55 mm
Delivery time	1 d
Dimensions packaging (W×D×H)	215×90×65 mm
Shipping method	Parcel service
Net weight approx.	0,30 kg
Gross weight approx.	0,45 kg
Shipping weight	0,41 kg
Shipping volume weight	0,3 kg

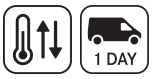
Product information	
GTIN/EAN number	4045761483002
Trade number	90275000
Warranty Time	24 mon
REACH classification	no prohibited substances

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Pictograms

STANDARD



OPTION

