KERN **ORA 4UA**

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-U

Measuring System	
Measuring range urea [Min]	30%
Scale urea	✓
Scales	EG PG CW BF Urea
Measurement temperature [Max] (°C)	30 °C
Measurement temperature [Min] (°C)	10 °C
Readabilites [d]	1 °C 1 °C 5 °C 0,01 kg/l 0,2 %
Appropriate calibration liquid	0 % (distilled water)
Measuring range urea [Max]	35%
Readout urea	0,2%
Measuring method	Light refraction
Automatic temperature compensation (ATC)	✓
Scale windshield washer fluid	✓
Measuring range batterie fluid [Min]	1,10 kg/l
Meausring range batterie fluid [Max]	1,40 kg/l
Readout batterie fluid	0,01 kg/l
Scale batterie fluid	✓
Measuring range ethylene glycol (°C) [Min]	-50 °C
Measuring range ethylene glycol (°C) [Max]	0 °C
Readout ethylene glycol (°C)	1 °C
Scale for ethylene glycol (°C)	✓
Measuring range propylene glycol (°C) [Min]	-50 °C
Measuring range propylene glycol (°C) [Max]	0 °C
Readout propylene glycol (°C)	1 °C
Scale propylene glycol (°C)	✓
Measuring range windshield washer fluid [Min]	-40 °C
Measuring range windshield washer fluid [Max]	0 °C
Readout windshield washer fluid	5 °C
Measuring ranges	-50 °C - 0 °C -50 °C - 0 °C -40 °C - 0 °C 1,10 kg/l - 1,40 kg/l 30 % - 35 %
Area of application	Automotive

Construction	
Dimension (W×D×H)	160×40×40 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

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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)	215×94×65 mm
Shipping method	Parcel service
Net weight approx.	0,30 kg
Gross weight approx.	0,35 kg
Shipping weight	0,305 kg
Shipping volume weight	0,3 kg

Product information	
GTIN/EAN number	4045761483101
Trade number	90275000
Warranty Time	24 mon
REACH classification	no prohibited substances

Pictograms

STANDARD



OPTION

