

KERN ORA 4FA

KERN

Refractive index measurement for laboratories and the industry



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

Measuring System	
Measurement temperature [Min] (°C)	10 °C
Measurement temperature [Max] (°C)	30 °C
Measuring method	Light refraction
Scales	EG
	PG
	CW
	BF
Measuring ranges	-50 °C - 0 °C
	-50 °C - 0 °C
	-40 °C - 0 °C
	1,10 kg/l - 1,40 kg/l
Readabilities [d]	1 °C
	1 °C
	5 °C
	0,01 kg/l
Automatic temperature compensation (ATC)	✓
Scale windshield washer fluid	✓
Measuring range batterie fluid [Min]	1,10 kg/l
Measuring 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
Appropriate calibration liquid	0 % (distilled water)
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	
Automatic temperature compensation	✓
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)	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

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Shipping weight	0,305 kg
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Product information

GTIN/EAN number	4045761483132
REACH classification	no prohibited substances

Pictograms

STANDARD

