

KERN ORM 2CA

Digital measurement of refraction index for universal application

KERN



Category

Brand	Optics
Product category	Refractometer
Product group	Digital refractometer
Product family	ORM-CA

Measuring System

Area of application	Automotive
Measuring method	Total reflection
Automatic temperature compensation (ATC)	✓

Scales	Brix
	EG
Measuring ranges	EG (%)
	PG
	PG (%)
	0,0 % - 90,0 %
	-50,0 °C - 0,0 °C
	0,0 % - 100,0 %
	-60,0 °C - 0,0 °C
	0,0 % - 100,0 %

Readabilities [d]	0,1 %
	0,1 °C
	0,1 %
	0,1 °C
	0,1 %

Precision	0,2 %
	0,5 °C
	0,5 %
	0,5 °C
	0,5 %

Appropriate calibration liquid 0 % (distilled water)

Measurement temperature [Min] (°C) 0 °C

Measurement temperature [Max] (°C) 40 °C

Brix scale ✓

Measuring range Brix [Min] 0 %

Measuring range Brix [Max] 90 %

Readout Brix 0,1 %

Accuracy Brix ±0,2 %

Scale for ethylene glycol (%) ✓

Measuring range ethylene glycol (%) [Min] 0 %

Measuring range ethylene glycol (%) [Max] 100 %

Readout ethylene glycol (%) 0,1 %

Accuracy ethylene glycol (%) ±0,5 %

Scale for ethylene glycol (°C) ✓

Measuring range ethylene glycol (°C) [Min] -50 °C

Measuring range ethylene glycol (°C) [Max] 0 °C

Readout ethylene glycol (°C) 0,1 °C

Accuracy ethylene glycol (°C) ±0,5 °C

Scale propylene glycol (%) ✓

Measuring range propylene glycol (%) [Min] 0 %

Measuring range propylene glycol (%) [Max] 100 %

Readout propylene glycol (%) 0,1 %

Accuracy propylene glycol (%) ±0,5 %

Scale propylene glycol (°C) ✓

Measuring range propylene glycol (°C) [Min] -60 °C

Measuring range propylene glycol (°C) [Max] 0 °C

Readout propylene glycol (°C) 0,1 °C

Accuracy propylene glycol (°C) ±0,5 °C

Construction

Dimension (W×D×H)	121×58×25 mm
Refractometer type	Handheld refractometer
Scale - Display type	Digital
Prism lid	✓
Material prism	ZLaF3 lanthanum flint glass nd=1.85544

Functions

Averaging measurement	✓
Averaging measurement amount	15
IP protection - complete device	IP65
Auto-off interval(s) in battery mode/rechargeable battery mode	60 sec

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Power Supply

Supplied power supply	Battery
Battery / accumulator type	Alkali(-Manganese)
Battery connection	Pad + Spring
Battery capacity	1.300 mAh
Battery voltage	1,5 V

Environmental conditions

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

Approval

CE mark	✓
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Services (optional)

Article number for factory calibration	961-290
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Packing & Shipping

Dimensions transport container (W×D×H)	170×110×50 mm
Delivery time	1 d
Dimensions packaging (W×D×H)	170×110×50 mm
Shipping method	Parcel service
Net weight approx.	0,15 kg
Gross weight approx.	0,35 kg
Shipping weight	0,31 kg

Pictograms

STANDARD

