KERN **ORM 2CA**

Digital measurement of refraction index for universal application



Date of creation: 24.10.2026

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

Measuring System	
Scales	Brix EG EG (%) PG PG (%)
Measurement temperature [Max] (°C)	40 °C
Measurement temperature [Min] (°C)	0 °C
Readabilites [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)
Measuring method	Total reflection
Automatic temperature compensation (ATC)	✓
Measuring range ethylene glycol (%) [Min]	0 %(v/v)
Measuring range ethylene glycol (%) [Max]	100 %(v/v)
Readout ethylene glycol (%)	0,1 %(v/v)
Accuracy ethylene glycol (%)	±0,5 %(v/v)
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 for ethylene glycol (%)	✓
Scale for ethylene glycol (°C)	✓
Measuring range propylene glycol (%) [Min]	0 %(v/v)
Measuring range propylene glycol (%) [Max]	100 %(v/v)
Readout propylene glycol (%)	0,1 %(v/v)
Accuracy propylene glycol (%)	±0,5 %(v/v)
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
Scale propylene glycol (%)	✓
Scale propylene glycol (°C)	✓
Measuring ranges	0,0 % - 90,0 % -50,0 °C - 0,0 °C 0,0 % - 100,0 % -60,0 °C - 0,0 °C 0,0 % - 100,0 %
Area of application	Automotive
Accuracy Brix	±0,2 %
Readout Brix	0,1 %
Measuring range Brix [Min]	0 %
Measuring range Brix [Max]	90 %
Brix scale	✓

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	
IP protection - complete device	IP65

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Auto-off interval(s) in battery mode/rechargeable battery mode	60 sec
Averaging measurement	✓
Averaging measurement amount	15

Power Supply

Supplied power supply	Battery
Power supply cable removable	removable
Battery / accumulator type	Alkali(-Manganese)
Battery connection	Pad + Spring
Battery capacity	1.300 mAh
Battery voltage	1,5 V
Battery – Number of cells	1
Battery – Individual weight	11,5 g
Battery – Total weight	11,5 g
Battery – Construction	Individual cells
Battery capacity (Wh)	1,95 Wh
Battery – Lithium content	0 g
Battery/Accu connected	not connected, enclosed

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)	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
Shipping volume weight	0,2 kg

Product information

GTIN/EAN number	4045761352759
Trade number	90275000
Warranty Time	24 mon
REACH classification	no prohibited substances

Pictograms

STANDARD



OPTION

