

PRODUCT BROCHURE

OPTICS ORM 1NA

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ENGLISH



Digital measurement of refraction index for universal application

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PRODUCT SHOWCASE



ENGLISH



DESCRIPTION

- The KERN ORM refractometers are accurate and universal maintenance free digital handheld refractometers
- The typical and practical design is suitable for a quick and convenient everyday use and is characterized by its easy-using and robustness
- With their handy design, they are ideal for convenient and rapid everyday use
- The large, easy-to-read display with integrated temperature display supports the user to reliably determine the measurement
- The integrated automatic temperature compensation (ATC), avoids the manual conversion of the measurement. This allows a quick and efficient usage of the instrument
- A quick and user-friendly calibration of the refractometer is possible at any time using commercially available distilled water
- The refractometers of the KERN ORM series are protected against dust and splash water according to the international protection class IP65. You can rinse the refractometer under running water after use
- Mean value measurements possible
- Included with the delivery:

- prism cover
 - pipette
 - storage box
 - 1 × AAA battery
 - user instruction
- This model is particularly suitable for the measurement and concentration control of the mass fraction of sodium chloride in water as well as of the content of NaCl (salt) in water and seawater. This is often used in the preparation and the cooking of sauces, bases for pastries, the production of brines (e.g. for white cheese) and the preparation of seafood and marinades for meat. Alternatively the display can be switched to show Brix or the refractive index.
 - Main scope of applications:
 - Food industry
 - Restaurants and large-scale catering establishment
 - Fisch farm

SPECIFICATIONS

Article codes, product groups & Status information

Model article-code	ORM 1NA
Model-Serie	ORM-NA
Assortment	Optics
Product Type	Refractometers
Product group	Digital refractometers
Product usage type	Main article
EAN code (Model)	404576 1335523
Predecessor Model	ORF 3SM
Customs tariff number	90275000
CE Label	yes
Country of Origin	CN

Technical data - Primary

Scales	Refractive index Brix Salt (NaCl) Salt (NaCl) ‰ spec. gravity
Scale Range	1,3330 nD - 1,4200 nD 0,0 % - 50,0 % 0,0 % - 28,0 % 0 ‰ - 280 ‰ 1,000 sg - 1,220 sg

Technical data - Construction

IP Protection	IP65
Type	Handheld refractometer
Display scale	Digital
Auto-Off	60 s
Prism material	optical glass
Prism cover lid	yes
Dimensions (W×D×H)	121×58×25 mm

Technical data - Power supply

Protection Class	Class III - Low voltage
Cable attachment	removable
Battery type	Alkali(-Manganese)
Battery compartment	internal - in the housing

Technical data - Measuring system

Measuring method	Total reflection
Measuring Temp min	0 °C
Measuring Temp max	40 °C
Readout	0.0001 nD 0.1 % 0.1 % 1 ‰ 0.001 sg
Accuracy	0.0003 nD 0.2 % 0.2 % 2 ‰ 0.002 sg
Averaging measurment	yes
Averaging measurement quantity	15

Technical data - Environmental conditions

Storage Temp Min	-5 °C
Stotage Temp Max	40 °C

Technical data - Packing & Shipping

Dimensions packaging (W×D×H)	170×110×50 mm
Gross weight	0.35 kg
Net weight	0.15 kg
Shipping method	Parcel service
Packaging component - by weight - cardboard	20 g
Packaging component - by weight - plastics	1 g

Delivery time	1 d
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Technical data - Verification

WEEE	yes
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Optional Services

ISO Calobration	961-290
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FUNCTIONS

Standard



ACCESSORIES

Model	Description
<u>ORA-A1010</u>	Liquid KERN ORA-A1010

SERVICES

Model	Description
<u>961-290</u>	Factory calibration KERN 961-290
<u>961-290R</u>	Factory calibration KERN 961-290R

SPARE PARTS

Model	Description
<u>ORA-A2010</u>	Pipette ORA-A2010
<u>ORM-A2001</u>	Refractometer box KERN ORM-A2001
<u>ORM-A2002</u>	Housing protection KERN ORM-A2002
<u>ORM-A2003</u>	Battery compartment cover KERN ORM-A2003
<u>ORM-A2004</u>	Prismatic flap KERN ORM-A2004
<u>ORM-A2005</u>	Outer packaging box KERN ORM-A2005