

PRODUCT BROCHURE

OPTICS ORA 1UA

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ENGLISH



Refractive index measurement for laboratories and the industry

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PRODUCT SHOWCASE



DESCRIPTION

- The models in the KERN ORA-U range are universal, maintenance-free analogue manual refractometers
- The handy and robust design allows the easy, efficient and sustainable use in everyday life
- These scales are especially developed, exactly calculated and checked. They are also characterized by their thin and clear lines.
- The optical system and the prism cover are made of special material which allows a low-tolerance measuring.
- All models are fitted with an eyepiece which can be adjusted easily and smoothly to different visual capacities
- The temperature compensation ("ATC") enables accurate measurement at different ambient temperatures (10 °C to 30 °C)
- Included with the delivery:
 - Storage box
 - Calibration solution
 - Pipette
 - Screwdriver
 - Cleaning cloth
- Further accessories are available optionally.
- This model is particularly suitable for measuring and determining urea.
- The main scope of applications is:
 - Chemical industry

SPECIFICATIONS

Article codes, product groups & Status

information

Model article-code	ORA 1UA
Model-Serie	ORA-U
Assortment	Optics
Product Type	Refractometers
Product group	Analogue refractometers
Product usage type	Main article
EAN code (Model)	4045761159877
Predecessor Model	ORA 1UB
Successor Model	ORA 1UA-2025e
Customs tariff number	90275000

Technical data - Primary

Scales	Urea
Scale Range	0 % - 40 %
ATC	yes

Technical data - Construction

Type	Handheld refractometer
Display scale	Analogue
Dimensions (W×D×H)	160×40×40 mm

Technical data - Measuring system

Measuring method	Light refraction
Measuring Temp min	10 °C
Measuring Temp max	30 °C
Readout	0.2 %

Technical data - Environmental conditions

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

Technical data - Packing & Shipping

Dimensions packaging (W×D×H)	215×94×65 mm
Gross weight	0.35 kg
Net weight	0.30 kg
Shipping method	Parcel service
Packaging component - by weight - paper	888.76 mg
Packaging component - by weight - cardboard	49.9797 g
Packaging component - by weight - plastics	1.41156 g
Packaging component - by weight - styrofoam	0 g
Packaging component - by weight - foam	0 g
Delivery time	1 d

Optional Services

ISO Calibration	961-290
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FUNCTIONS

Standard



ACCESSORIES

Model	Description
ORA-A1101	Prism cover ORA-A1101
ORA-A2103	Leather bag ORA-A2103
ORA-A1010	Liquid KERN ORA-A1010
OCS 901	Cleaning Sets for Microscopes KERN OCS 901
OCS-A1101	Cleaning liquid KERN OCS-A1101

SERVICES

Model	Description
961-290	Factory calibration KERN 961-290
961-290R	Factory calibration KERN 961-290R
970-011	Warranty extension KERN (+3 years) 970-011

SPARE PARTS

Model	Description
ORA-A1001	Liquid KERN ORA-A1001
ORA-A2001	Prismatic flap ORA-A2001
ORA-A2002	Cover ORA-A2002
ORA-A2003	Eyepiece - rubber ORA-A2003
ORA-A2004	Rubber grip (40 mm) ORA-A2004
ORA-A2101	Refractometer box ORA-A2101
ORA-A2105	Single shipping box ORA-A2105
ORA-A2010	Pipette ORA-A2010

RELATED ARTICLES DATA

Model name	Scales	Scale Range	ATC
ORA 4FB	EG PG CW BF	-50 °C - 0 °C -50 °C - 0 °C -40 °C - 0 °C 1,10 kg/l - 1,40 kg/l	-
ORA 1UB	Urea	0 % - 40 %	-
ORA 4UB	EG PG CW BF Urea	-50 °C - 0 °C -50 °C - 0 °C -40 °C - 0 °C 1,10 kg/l - 1,40 kg/l 30 % - 35 %	-
ORA 1UA	Urea	0 % - 40 %	yes

Model name	Scales	Scale Range	ATC
ORA 4FA	EG PG CW BF	-50 °C - 0 °C -50 °C - 0 °C -40 °C - 0 °C 1,10 kg/l - 1,40 kg/l	yes
ORA 4UA	EG PG CW BF Urea	-50 °C - 0 °C -50 °C - 0 °C -40 °C - 0 °C 1,10 kg/l - 1,40 kg/l 30 % - 35 %	yes