

KERN ORM 1UN

Digital measurement of refraction index for universal application

KERN



Category

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

Measuring System

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

Scales

	Refractive index
	Brix
	Urine (spec. gravity)
	Serum proteïne
Measuring ranges	1,3330 nD - 1,4200 nD
	0,0 % - 50,0 %
	1,000 sgU - 1,050 sgU
	0,0 g/dl - 12,0 g/dl

Readabilities [d]

	0,0001 nD
	0,1 %
	0,001 sgU
	0,1 g/dl

Precision

	0,0003 nD
	0,2 %
	0,002 sgU
	0.2 g/dl

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] 50 %

Readout Brix 0,1 %

Accuracy Brix	±0,2 %
Scale for Refractive index	✓
Measuring range refractive index [Min]	1,3330 nD
Measuring range refractive index [Max]	1,4200 nD
Readout refractive index	0,0001 nD
Accuracy refractive index	±0,0003 nD
Scale protein serum	✓
Measuring range protein serum [Min]	0 g/100 ml
Measuring range protein serum [Max]	12 g/100 ml
Readout protein serum	0,1 g/100 ml
Accuracy protein serum	±0,2 g/100 ml
Scale urine (specific gravity)	✓
Measuring range urine (specific gravity) [Min]	1,000
Measuring range urine (specific gravity) [Max]	1,050
Readout urine (specific gravity)	0,001
Accuracy urine (specific gravity)	±0,002

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

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

KERN ORM 1UN



Digital measurement of refraction index for universal application

Approval

CE mark	✓
---------	---

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
-----------------	---------

Pictograms

STANDARD

