KERN **ORA 3HA**

Refractive index measurement for laboratories and the industry



Date of creation: 14.11.2026

Category

Brand	Optics
Product category	Refractometer
Product group	Analogue refractometer
Product family	ORA-H

Measuring System

Scales	Brix Baumé Water content
Measurement temperature [Max] (°C)	30 °C
Measurement temperature [Min] (°C)	10 °C
Readabilites [d]	0,5 % 0,5 °Bé 1 %
Appropriate calibration liquid	78,8 % (clove oil)
Calibration block required	✓
Measuring method	Light refraction
Automatic temperature compensation (ATC)	✓
Scale water content	✓
Measuring range Baumé [Min]	38 °Bé
Measuring range Baumé [Max]	43 °Bé
Readout Baumé	0,5 °Bé
Scale for Baumé	✓
Measuring range water content [Min]	12%
Measuring range water content [Max]	27%
Readout water content	1%
Measuring ranges	58 % - 92 % 38 °Bé - 43 °Bé 12 % - 27 %
Area of application	Honey
Readout Brix	0,5%
Measuring range Brix [Min]	58%
Measuring range Brix [Max]	92%
Brix scale	✓

Construction

Dimension (W×D×H)	160×40×40 mm
Refractometer type	Handheld refractometer
Scale - Display type	Analogue
Material prism	ZLaF3 lanthanum flint glass nd=1.85544

Functions

IP protection - complete device	-
Automatic temperature compensation	✓

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)	205×75×55 mm
Delivery time	1 d
Dimensions packaging (W×D×H)	215×94×65 mm
Shipping method	Parcel service
Net weight approx.	0,20 kg
Gross weight approx.	0,45 kg
Shipping weight	0,404 kg
Shipping volume weight	0,3 kg

Product information

GTIN/EAN number	4045761483453

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Trade number	90275000
Warranty Time	24 mon
REACH classification	no prohibited substances

Pictograms

STANDARD



OPTION

