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## OPTi Digital Handheld Refractometer

Order code: **0507.3801**



Cena bez DPH

288,00 Eur

Price with VAT

348,48 Eur

Parameters

Quantitative unit

ks

### All the accuracy you need in an easy-to-use handheld device

OPTi® Digital Handheld Refractometer - A high performance refractometer with a vast choice of scales for a wide range of applications – all in the palm of your hand.

## Software

- Quick 2 second read time of sample
- Onboard library of 50 scales
- Up to 3 active scales on a single device
- High Ambient Light (HAL) sensor detects and warns of too much light entering the sensor
- Unique “AG Test Mode” that allows the use of long-life non sucrose based certified reference materials
- Programmable read delay for sample temperature stabilisation

## Hardware

- Clear digital LCD display
- Ergonomic & durable handheld design
- IP65 rated
- Easy-clean, stainless steel prism dish
- Rapid temperature stabilisation

The OPTi® Digital Handheld Refractometer is a high quality, UK made, simple-to-use, accurate, pocket sized refractometer offering measurement between 0-95 Brix and over 40 other scales.

The OPTi refractometer is constructed using the latest manufacturing techniques. Stainless steel injection moulding to form the easy clean prism dish and ultrasonic welding to bond the housing. Each OPTi displays information to the user via an easy-to-read LCD display, helping to make readings even easier than using a standard optical handheld refractometer.

## Full 0-95 Brix Scale

The Brix scale is the most common scale used in refractometry, yet many refractometers cover only a small portion of it. OPTi gives you more, with coverage of the full Brix range (0-95) at no extra cost.

## 50 Common Refractometer Scales

Each OPTi comes with 3 interchangeable scales pre-loaded from an onboard library of 50 individual choices - meaning there are over 9880 possible OPTi combinations.

## A Durable Design For Versatile Use

Thanks to its durable design and vast range of scales, the OPTi is suitable for a wide range of applications; from the clinical laboratory to the harshest of environments. OPTi is the refractometer that fits in your pocket. With a long battery life, true portability, and durable design: OPTi refractometers are ready when you are. Readings from an OPTi refractometer are clear and defined thanks to the bold digital LCD display.

All OPTi refractometers feature a four decimal place LCD display, Temperature Compensation (ATC), robust design with IP65 rating, a choice of three scales in a single device.

## Typical Specifications

Typical Specifications	Sucrose (Brix)	Refractive Index	Specific Gravity (SG)	Concentration %
Range	0-95	1.33-1.53	1.000-1.050	0-95
Resolution	0.1	0.0001	0.001	0.1
Accuracy	0.2	0.0003	0.003	0.2
Temperature Compensation (ATC)	Brix (ICUMSA)	Application Specific or Brix		
Ambient Temperature Range	5-40°C (Ambient)	5-95°C (Sample)		

# Scale List

Complete list of OPTi scales selectable through the onboard library.

Application	Scale	Units	Range	Resolution	Accuracy	ATC
Primary	°Brix (ATC)		0-95	0.1	±0.2	°Brix
Primary	°Brix		0-95	0.1	±0.2	None
Primary	Refractive Index (ATC)		1.33-1.53	0.0001	±0.0003	°Brix
Primary	Refractive Index		1.33-1.53	0.0001	±0.0003	None
Automotive	AdBlue®/DEF (NOx reduction)	% Weight / Weight	0-40	0.1	±0.2	AUS32
Automotive	Ethylene Glycol	°C Freezing Point	0 to -50	1	±1	EG
Automotive	Ethylene Glycol	°F Freezing Point	30 to -40	1	±1	EG
Automotive	Propylene Glycol	°C Freezing Point	0 to -50	1	±1	PG
Automotive	Propylene Glycol	°F Freezing Point	30 to -40	1	±1	PG
Food & Beverage	°Butyro		0-100	0.1	±0.5	Butyro
Food & Beverage	42 HFCS (High Fructose Corn Syrup)	% Weight / Weight	0-95	0.1	±0.2	°Brix
Food & Beverage	55 HFCS (High Fructose Corn Syrup)	% Weight / Weight	0-95	0.1	±0.2	°Brix
Food & Beverage	90 HFCS (High Fructose Corn Syrup)	% Weight / Weight	0-95	0.1	±0.2	°Brix
Food & Beverage	Fructose	% Weight / Weight	0-85	0.1	±0.2	°Brix
Food & Beverage	Glucose	% Weight / Weight	0-85	0.1	±0.2	°Brix
Food & Beverage	Invert Sugar	% Weight / Weight	0-85	0.1	±0.2	°Brix
Food & Beverage	Maltose	% Weight / Weight	0-60	0.1	±0.2	°Brix
Food & Beverage	Salinity (NaCl)	% Weight / Volume	0-28	0.1	±0.2	NaCl
Food & Beverage	Total Solids of Waste Milk	%	5-15	0.1	±0.5	°Brix
Food & Beverage	Water in Honey	% Weight / Weight	10-30	0.1	±0.2	Honey
Industrial	Arbitrary		0-95	0.1	±0.2	
Industrial	Calcium Chloride	% Weight / Weight	0-40	0.1	±0.2	CaCl2
Industrial	Ethanol	% Volume / Volume	0-20	0.5	±1	Ethanol
Industrial	Ethylene Glycol	% Volume / Volume	0-60	0.1	±0.4	EG
Industrial	Ethylene Glycol	% Weight / Weight	0-60	0.1	±0.4	EG
Industrial	FSII DiEGME (ASTM D 5006)	% Volume / Volume	0.0-0.25	0.01	±0.02	°Brix
Industrial	Hydrogen Peroxide	% Weight / Weight	0-50	0.2	±0.5	°Brix
Industrial	Methanol	% Weight / Weight	0-40	1	±0.2	Meth
Industrial	Propylene Glycol	% Volume / Volume	0-60	0.1	±0.4	PG
Industrial	Sodium Sulphate	% Weight / Weight	0-22	0.1	±0.2	Na2SO4
Industrial	Starch	%	0-30	0.1	±0.2	°Brix
Industrial	Sulphuric Acid (Battery Acid)	Specific Gravity (d20/20)	1.000-1.501	0.001	±0.003	SA
Industrial	Urea (CRC data)	% Weight / Weight	0-40	0.1	±0.2	AUS32
Life Science	Colostrat Quality		Poor / PASS	Poor / PASS	±0.2	°Brix
Life Science	Seawater (Practical Salt Units)	Part Per Thousand	0-180	1	±1	NaCl

<b>Life Science</b>	Seawater (Practical Salt Units)	Specific Gravity (d20/20)	1.000-1.090	0.0005	±0.001	NaCl
<b>Life Science</b>	Serum Protein	g/100ml	0-30	0.1	±0.2	°Brix
<b>Life Science</b>	Urine (SG) Human	Specific Gravity (d20/20)	1.000-1.050	0.0005	±0.0010	°Brix
<b>Life Science</b>	Urine (SG) Large Mammal	Specific Gravity (d20/20)	1.000-1.050	0.0001	±0.0010	°Brix
<b>Life Science</b>	Urine (SG) Small Mammal	Specific Gravity (d20/20)	1.000-1.050	0.0005	±0.0010	°Brix
<b>Wine &amp; Beer</b>	°Baumé		0-50	0.1	±0.2	°Brix
<b>Wine &amp; Beer</b>	°Zeiss (ABV)	% Volume / Volume	10-135	0.1	±0.5	°Brix
<b>Wine &amp; Beer</b>	Alcohol Probable (AP)		0-22	0.1	±0.2	°Brix
<b>Wine &amp; Beer</b>	KMW (Babo)		0-25	1	±1	°Brix
<b>Wine &amp; Beer</b>	Oechsle (German)		30-130	1	±1	°Brix
<b>Wine &amp; Beer</b>	Oechsle (Swiss)		0-130	1	±1	°Brix
<b>Wine &amp; Beer</b>	°Plato		0-30	0.1	±0.2	°Brix
<b>Wine &amp; Beer</b>	Mass Sugar (°Brix) (ATC)	% Weight / Weight	0-95	0.1	±0.2	°Brix
<b>Wine &amp; Beer</b>	Mass Sugar (°Brix)	% Weight / Weight	0-95	0.1	±0.2	None
<b>Wine &amp; Beer</b>	Wort (Sucrose Equivalent)	Specific Gravity (d20/20)	1.000-1.120	0.0005	±0.001	°Brix

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Accuracy	0.2	0.0003	0.003	0.2
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Ambient Temperature Range	5-40°C (Ambient)	5-95°C (Sample)		
Special Features	-HAL- High Ambient Light detection, Error messaging, Battery life indicator, AG Test Mode, Scale library, Delay before reading, °F/°C switch, Serial & Version No, PIN control			
Prism Dish	Moulded Stainless Steel			
Prism Seal	Silicone			
Prism	8mm optical glass			
Sample Illumination	LED (yellow)			
Display	4 1/2 digital LCD			
Key Functions	READ, ZERO			
Keypad Material	Silicone rubber			
Case Material	Acrylonitrile Butadiene Styrene (ABS)			
IP Rating	IP65			
Humidity	<95% RH (non-condensing)			
Battery / Battery Life	3V, 2 x AAA (LR03) / 10,000 readings			
Nett Weight	115 grams (including batteries)			
Gross Weight	295 grams			
Dimensions (instrument)	12 x 5.5 x 3.5cm (L x W x H)			
Dimensions (packed)	25 x 10 x 6.5cm (L x W x H)			
Code No.	38-01			
EAN	5060322030470			

