

OPTi® Food & Beverage

PORTABLE REFRACTOMETERS FOR QUALITY CONTROL + MEASUREMENTS ON-THE-GO

The pocket-sized refractometer for food & beverage

OPTi digital handheld refractometers are ideal for food & beverage applications thanks to their durable, IP65 pocket-sized design, quick 2 second read time and broad selection of scales. Used for concentration measurement and control, the OPTi is great for testing the ripeness of fresh fruits such as grapes and tomatoes simply by squeezing a small amount of juice directly onto the refractometer prism. They are used in the manufacturing of jam, marmalade, syrup and other high sugar content products as well as for testing finished juices and other soft drinks.

OPTi® Digital Handheld Refractometers

- Quick 2 second read time.
- Onboard library of over 40 scales.
- 3 active scales on a single device.
- High Ambient Light (HAL) detection warns of too much light entering the sensor.
- Clear digital LCD display.
- Unique "AG Test Mode" that allows the use of long-life non sucrose based certified reference materials.
- Durable IP65 pocket sized design.
- Programmable read delay for sample temperature stabilisation.



a xylem brand

OPTi Refractometers FOR THE FOOD & BEVERAGE INDUSTRY

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
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	%	10–30	0.1	±0.2	Honey

OPT-FB-EN120

Additional Scales ONBOARD SCALES ALL AVAILABLE WITHIN THE SAME DEVICE



Application	Scale	Units	Range	Resolution	Accuracy	ATC
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
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	FSIIDIEGME (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	Colostrum Quality		Poor / PASS	Poor / PASS	±0.2	°Brix
Life Science	Seawater (Practical Salt Units)	Part Per Thousand	0–180	1	±1	NaCl
Life Science	Seawater (Practical Salt Units)	Specific Gravity (d20/20)	1.000–1.090	0.0005	±0.001	NaCl
Life Science	Serum Protein	g/100ml	0–30	0.1	±0.2	°Brix
Life Science	Urine (SG) Human	Specific Gravity (d20/20)	1.000–1.050	0.0005	±0.0010	°Brix
Life Science	Urine (SG) Large Mammal	Specific Gravity (d20/20)	1.000–1.050	0.0001	±0.0010	°Brix
Life Science	Urine (SG) Small Mammal	Specific Gravity (d20/20)	1.000–1.050	0.0005	±0.0010	°Brix
Wine & Beer	°Baumé		0–50	0.1	±0.2	°Brix
Wine & Beer	°Zeiss (ABV)	% Volume / Volume	10–135	0.1	±0.5	°Brix
Wine & Beer	Alcohol Probable (AP)		0–22	0.1	±0.2	°Brix
Wine & Beer	KMW (Babo)		0–25	1	±1	°Brix
Wine & Beer	Oechsle (German)		30–130	1	±1	°Brix
Wine & Beer	Oechsle (Swiss)		0–130	1	±1	°Brix
Wine & Beer	°Plato		0–30	0.1	±0.2	°Brix
Wine & Beer	Mass Sugar (°Brix) (ATC)	% Weight / Weight	0–95	0.1	±0.2	°Brix
Wine & Beer	Mass Sugar (°Brix)	% Weight / Weight	0–95	0.1	±0.2	None
Wine & Beer	Wort (Sucrose Equivalent)	Specific Gravity (d20/20)	1.000–1.120	0.0005	±0.001	°Brix

*Automatic Temperature Compensation

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Let's Solve Water

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