

# xylem



## OPTi® Life Science & Veterinary

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

### The pocket-sized refractometer for life science & veterinary

OPTi digital handheld refractometers are ideal for life science, veterinary and livestock farming applications thanks to their durable, IP65 pocket-sized design, quick 2 second read time and broad selection of scales. Bellingham + Stanley's range of refractometer scales for veterinarians and farmers enable the simple measurement of colostrum, blood and urine samples taken from animals. Thanks to only needing a small drop of sample to give a clear and accurate reading, the OPTi is perfect for hygienically measuring samples that are often difficult to obtain or, in the case of colostrum, being a valuable commodity.

### 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 LIFE SCIENCE & VETERINARY

OPTiLS-EN120

Application	Scale	Units	Range	Resolution	Accuracy	ATC*
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
Life Science	Colostrum Quality		Poor / PASS	Poor / PASS	±0.2	°Brix
Life Science	Total Solids of Waste Milk	%	5-15	0.1	±0.5	°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

## Additional Scales ONBOARD SCALES ALL AVAILABLE WITHIN THE SAME DEVICE



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
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	Water in Honey	%	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
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

[www.bellinghamandstanley.com](http://www.bellinghamandstanley.com)



**Bellingham + Stanley**  
 Xylem  
 Longfield Road  
 Tunbridge Wells  
 Kent, TN2 3EY  
 United Kingdom  
 Tel: +44 (0) 1892 500400  
 Email: sales.bs.uk@xyleminc.com

**Bellingham + Stanley (USA)**  
 Xylem  
 151 Graham Road  
 College Station  
 TX 77845  
 USA  
 Tel: +1 (979) 690-1711  
 Email: sales.bs.us@xyleminc.com