

OPTi® Industrial Applications

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

The pocket-sized refractometer for industrial applications

OPTi digital handheld refractometers are ideal for industrial applications thanks to their durable, IP65 pocket-sized design, quick 2 second read time and broad selection of scales. Bellingham + Stanley's industrial refractometers cover a broad spectrum of applications. A common scale used within the industrial sector is Glycol % - useful for engineers working on air-conditioners, heat exchangers or even pasteurisers. Our refractometers can be used for fire fighting foam and industrial coolants. In the aviation industry there is a need for determining the concentration of aircraft anti-icing fluids (glycol & additives).

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.



OPTi Refractometers FOR INDUSTRIAL APPLICATIONS

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
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 (ASTMD 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

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	Total Solids of Waste Milk	%	5–15	0.1	±0.5	°Brix
Food & Beverage	Water in Honey	%	10–30	0.1	±0.2	Honey
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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