

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

| 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 |

OPTi-EN120

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

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