



NIEUWKOOP

LEAFLET



RE1500

REFRACTOMETER DIGITAL

0-85% Brix



TO MEASURE  TO KNOW



General description

The RE1500 is an optical instrument that employs the measurement of refractive index to determine the % Brix of sugar in aqueous solutions. The method is both simple and quick. Samples are measured after a simple user calibration with deionized or distilled water. Within seconds the instrument measures the refractive index of the sample and converts it to % Brix concentration units. The RE1500 digital refractometer eliminates the uncertainty associated with mechanical refractometers and is easily portable for measurements in the field.

The measurement technique and temperature compensation employ methodology recommended in the ICUMSA Methods Book (Internationally recognized body for Sugar Analysis).

Temperature (in °C or °F) is displayed simultaneously with the measurement on the large dual level display along with icons for Low Power and other helpful message codes.

Key features include:

- Dual-level LCD
- Automatic Temperature Compensation (ATC)
- Easy setup and storage
- Battery operation with Low Power indicator (BEPS)
- Automatically turns off after 3 minutes of non-use.



Each RE1500 instrument is supplied in a rugged suitcase with:

- 9 V battery
- Instruction manual

Technical specifications

Range	0 to 85% Brix / 0 to 80 °C
Resolution	0.1% Brix / 0,1°C
Accuracy	± 0.2% Brix / ±0,3°C
Light Source	Yellow LED
Measurement Time	Approximately 1.5 seconds
Minimum Sample Volume	100 JL (cover prism totally)
Sample Cell	SS ring and flint glass prism
Temperature Compensation	Automatic between 10 and 40 °C
Case Material	ABS
Enclosure Rating	IP 65
Battery Type/Life	1 x 9 volt AA batteries / 5000 readings
Auto-Shut off	After 3 minutes of non-use
Dimensions	23,5 x 21 x 8 cm
Weight	660 gram



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Nieuwkoop BV

Aalsmeerderweg 249 -S

1432 CM AALSMEER

0297 325836

info@nieuwkoopbv.nl

www.meten.nl



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