MA872

Digital Refractometer for Fructose Measurements

Rating: Not Rated Yet
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Description

MA872 Digital Refractometer for Fructose Measurements

The MA872 is an optical instrument that employs the measurement of refractive index to determine the % Fructose in aqueous solutions. The method is both simple and quick. Samples from expressed, reconstituted or concentrated juice 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 % by weight concentration units.

The MA872 digital refractometer eliminates the uncertainity associated with mechanical refractometers and is easily portable for measurements in the plant.
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.

Specification	MA872
Range	0 to 85% mass 0 to 80°C / 32 to 176°F
Resolution	0.1% 0.1°C / 0.1°F
Accuracy	±0.2% ±0.3°C / ±0.5°F
Light Source	yellow LED
Measurements Time	approximately 1.5 seconds
Minimum Sample Volume	100 µL (cover prism totally)
Sample Cell	SS ring and flint glass prism
Temperature Compensation	automatic between 10 and 40°C
Case Material	ABS
Battery Type	1 x 9V AA (included)
Battery Life	5000 reading
Auto-shut off	after 3 minutes of non-use
Packaging dimensions / weight	268 x 122 x 118 mm / 660 g

Accessories:

- **MA752** Hard carrying case for digital refractometers

Ordering information:

MA872 instrument is supplied with:

- 9 V battery;
- Instruction manual.