

MA881



Digital Refractometer for Invert Sugar Measurements

Rating: Not Rated Yet

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Description

MA881 Digital Refractometer for Invert Sugar Measurements

The MA881 is an optical instrument that employs the measurement of refractive index to determine the % Invert 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 % by weight concentration units. The MA881 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.

| Specification | MA881 |
|--------------------------|--|
| Range | 0 to 85% mass 0 to 80°C / 32 to 176°F |
| Resolution | 0.1% 0.1°C / 0.1°F |
| Accuracy (@25°C) | ±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 |
| Dimensions / Weight | 268 x 122 x 118 mm / 660 g |

Accessories:

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

Ordering information:

MA881 instrument is supplied with:

- 9 V battery;
- Instruction manual.