



Milwaukee

New

MA871

DIGITAL BRUX

REFRACTOMETER

**Brix Range:
0 to 85% Brix**



www.milwaukeeinst.com

MA871 DIGITAL BRIX REFRACTOMETER

Ideal Brix Concentration of Known Substances

Oranges, pears	6-13%
Tomato	3-6%
Apples, melons	12-18%
Strawberries, peaches	6-12%
Grape seeds	13-24%
Concentrated fruit juices	42-68%
Fruit juice	12-18%
Strained tomato	7-16%
Tomato juice	5-9%
Aerated drinks	6-15%
Nectars	16-23%
Drinks with lactic acid	16, 5-21, 5%
Condensed milk	52-68%
Liquid sugar	58-80%
Canned fruit	14-28%
Egg yoke	45-48%
Milk	12-17%
Marmalade, flour	60-70%



New

MA871 - Digital Brix Refractometer

The **MA871** 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 **MA871** 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 **MA871** instrument is supplied with:

- 9 V battery;
- Instruction manual.

Other models available

- **MA872:** Digital Refractometer for **Fructose** Measurements (Range from 0 to 85% mass);
- **MA873:** Digital Refractometer for **Glucose** Measurements (Range from 0 to 85% mass);
- **MA881:** Digital Refractometer for **Invert Sugar** Measurements (Range from 0 to 85% mass).

- :: ATC
- :: Temperature Measurement
- :: Dual-Level LCD
- :: Fast Calibration
- :: Wide Range
- :: Easy Measurements
- :: Battery Operated
- :: Small Sample Size
- :: Automatic Shut-off

Specifications	MA871
Range	0 to 85% Brix 0 to 80°C / 32 to 175°F
Resolution	0.1% Brix 0.1°C / 0.1°F
Accuracy	±0.2% Brix ±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 / 50 to 104°F
Case Material	ABS
Enclosure Rating	IP 65
Battery Type/Life	1 x 9 volt AA batteries / 5000 reading
Auto-shut off	After 3 minutes of non-use
Dimensions	192 x 102 x 67 mm
Weight	420 g

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