

## MA882/MA883/MA884/MA885

### Digital Refractometers for Grape Juice Must Measurements

The MA882, MA883, MA884 and MA885 are optical instruments that are based on the measurement of the refractive index of a solution. The measurement of refractive index is simple and quick and provides the vintner an accepted method for sugar content analysis. Samples are measured after a simple user calibration with deionized or distilled water. Within seconds the instrument measures the refractive index of the grape. This digital refractometers eliminate the uncertainty associated with mechanical refractometers and are easily portable for measurements in the field. The four instruments utilize internationally recognized references for unit conversion and temperature compensation.

- MA882 measures %Brix;
- MA883 measures °Baumé;
- MA884 measures %Brix and Potential Alcohol (% vol);
- MA885 measures %Brix, °Oechsle (°Oe) and °KMW (°Babo).

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.



- Years warranty 2
- ATC
- Dual Display
- Self diagnostics
- CE

#### Key features include:

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

Specifications	 MA882	 MA883	 MA884	 MA885
<b>Range</b>	0 to 50% Brix 0 to 80°C / 32 to 176°F	0 to 28 °Baumé 0 to 80°C / 32 to 176°F	0 to 50% Brix 0 to 25% v/v Potential Alc. 0 to 80°C / 32 to 176°F	0 to 50% Brix 0 to 230 °Oechsle 0 to 42 °KMW 0 to 80°C / 32 to 176°F
<b>Resolution</b>	0.1% Brix 0.1°C / 0.1°F	0.1 °Baumé 0.1°C / 0.1°F	0.1% Brix 0.1% v/v Potential Alcohol 0.1°C / 0.1°F	0.1% Brix 0.1 °Oechsle 0.1 °KMW 0.1°C / 0.1°F
<b>Accuracy</b>	±0.2% Brix ±0.3°C / ±0.5°F	±0.1 °Baumé ±0.3°C / ±0.5°F	±0.2% Brix ±0.2 v/v Potential Alcohol ±0.3°C / ±0.5°F	±0.2% Brix ±1 °Oechsle ±0.2 °KMW ±0.3°C / ±0.5°F
<b>Light Source</b>	yellow LED	yellow LED	yellow LED	yellow LED
<b>Measurement Time</b>	approximately 1.5 seconds	approximately 1.5 seconds	approximately 1.5 seconds	approximately 1.5 seconds
<b>Minimum Sample Volume</b>	100 µL (cover prism totally)	100 µL (cover prism totally)	100 µL (cover prism totally)	100 µL (cover prism totally)
<b>Sample Cell</b>	SS ring and flint glass prism	SS ring and flint glass prism	SS ring and flint glass prism	SS ring and flint glass prism
<b>Temperature Compensation</b>	automatic between 10 and 40°C / 50 to 104°F	automatic between 10 and 40°C / 50 to 104°F	automatic between 10 and 40°C / 50 to 104°F	automatic between 10 and 40°C / 50 to 104°F
<b>Case Material</b>	ABS	ABS	ABS	ABS
<b>Battery Type</b>	1 x 9V AA (included)	1 x 9V AA (included)	1 x 9V AA (included)	1 x 9V AA (included)
<b>Battery Life</b>	5000 reading	5000 reading	5000 reading	5000 reading
<b>Auto-shut off</b>	after 3 minutes of non-use	after 3 minutes of non-use	after 3 minutes of non-use	after 3 minutes of non-use
<b>Packaging dimensions</b>	268 x 122 x 118 mm	268 x 122 x 118 mm	268 x 122 x 118 mm	268 x 122 x 118 mm
<b>Packaging weight</b>	660 g	660 g	660 g	660 g

#### Ordering Information

MA882, MA883, MA884 and MA885 are supplied in a carton box, complete with 9V battery, pipette and instruction manual.

Optionally you can also order the refractometers in a hard carrying case (MA752).

