

# MA886

## Digital Refractometer for Sodium Chloride Measurements

The **MA886** is an optical instrument that employs the measurement of the refractive index to determine sodium chloride concentration in aqueous solutions used in food preparation.

It is not intended for sea water salinity measurements.

The measurement of refractive index is simple and quick and provides the user an accepted method for NaCl analysis. Samples are measured after a simple user calibration with deionized or distilled water. Within seconds the instrument measures the refractive index of the solution.

The digital refractometer eliminates the uncertainty associated with mechanical refractometers and is easily portable for measurements where you need them.

The instrument utilizes internationally recognized references for unit conversion and temperature compensation. It can display the measurement of NaCl concentration 4 different ways: g/100 g, g/100 mL, Specific Gravity, and °Baumé. Temperature (in °C or °F) is displayed simultaneously with the measurement (on 3 of the ranges) 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

| Specifications                  | MA886   |
|---------------------------------|---|
| <b>Range</b>                    | 0 to 28 g/100 g<br>0 to 34 g/100 ml<br>1.000 to 1.216 Specific Gravity<br>0 to 26 °Baumé<br>0 to 80°C / 32 to 176°F |
| <b>Resolution</b>               | 0.1 g/100 g<br>0.1 g/100 ml<br>0.001 Specific Gravity<br>0.1 °Baumé<br>0.1°C / 0.1°F                                |
| <b>Accuracy</b>                 | ±0.2 g/100 g<br>±0.2 g/100 ml<br>±0.002 Specific Gravity<br>±0.2 °Baumé<br>±0.3°C / ±0.5°F                          |
| <b>Light Source</b>             | yellow LED  |
| <b>Measurement Time</b>         | approximately 1.5 seconds   |
| <b>Minimum Sample Volume</b>    | 100 µL (cover prism totally)  |
| <b>Sample Cell</b>              | SS ring and flint glass prism   |
| <b>Temperature Compensation</b> | automatic between 10 and 40°C (50 to 104°F)   |
| <b>Case Material</b>            | ABS   |
| <b>Battery Type</b>             | 1 x 9V AA (included)  |
| <b>Battery Life</b>             | 5000 reading  |
| <b>Auto-shut off</b>            | after 3 minutes of non-use  |
| <b>Packaging dimensions</b>     | 268 x 122 x 118 mm  |
| <b>Packaging weight</b>         | 660 g   |



### Stainless Steel Sample Well and Prism

Place a few drops of the sample in the well and press the READ key.

### Liquid Crystal Display (LCD)

Dual Level LCD with Primary and Secondary Display.



### Ordering Information

**MA886** is 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**).

