



## Milwaukee MI-MA887 Digital Salinity Refractometer



### SUMMARY

The MI-MA887 is an optical instrument that employ the measurement of the refractive index to determine the salinity of natural and artificial seawater, ocean water or brackish intermediates.

The digital refractometer eliminates the uncertainty associated with mechanical refractometers and is easily portable for ship, shore or home use. The MI-MA887 is simple and quick to use. Samples are measured after a simple user calibration with distilled or deionized water. Within seconds, the refractive index and temperature are measured and converted into one of three popular measurement units, Practical salinity units (PSU), Salinity in parts per thousand (ppt), or specific gravity (S.G.(2020)).

All conversion algorithms are based upon respected scientific publications using the physical properties of seawater (Not sodium chloride). The temperature in °C or °F is also displayed on the large dual level display along with helpful message codes.

## SPECIFICATIONS

- **Range:** 0 to 50 PSU: 0 to 150 ppt | 1.000 to 1.114 S.G. (20/20) | 0 to 80°C / 32 to 175°F
- **Resolution:** 1 PSU | 1 ppt | 0.001 S.G. (20/20) | 0.1°C / 0.1°F
- **Accuracy:** ±2 PSU | ±2 ppt | ±0.002 S.G. (20/20) | ±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:** Stainless steel ring and flint glass prism
- **Temperature Compensation:** Automatic between 10 and 40°C / 50 to 104°F
- **Case Material:** ABS
- **Battery:** **Battery Life:** 5000 readings, Type 1 x 9V AA (included)
- **Auto-shut off:** After 3 minutes of non-use
- **Enclosure Rating:** IP65
- **Dimensions Meter:** 7.6 x 4 x 2.64 inches (192 x 102 x 67 mm)
- **Weight Meter:** .93 lbs. (0.42 kg)
- **Dimensions Package:** 11 x 6.8 x 4.6 inches (268 x 172 x 118 mm)
- **Weight Packaged:** 1.46 lbs. (0.66 kg)

## DESIGN FEATURES

- Fast, accurate results with digital dual level LCD readout.
  - Easy measurement with just 2-3 drops of sample needed and results less than 2 seconds.
  - Automatically temperature compensated
  - Simple one-point calibration using distilled or deionized water.
  - Easy to clean, stainless steel sample well with unit rated to IP65 as "dust tight" and protected against water jets.
  - Battery percent level indicator with automatic shut-off (batteries included)
- Thank you for considering Milwaukee to help you take your results to the next level.





Thousands of saltwater aquarium enthusiasts have dialed in the analysis with Milwaukee's salinity refractometer. No more visual readings. Get a digital readout within seconds accurate to  $\pm 2$  ppt with automatic temperature compensation (ATC).

### **WHAT PEOPLE ARE SAYING**

"This is a terrific addition and you'll want a digital refractometer if you spend any time at all with saltwater aquariums. Highly recommended."

"This is a must for any even remotely serious reef tank hobbyist."

"All I can say is WOW! I should have had this sooner."