Mobile Density Meter (MDM150)

Technology Overview

The WineSense™ Mobile Density Meter (MDM150) is a rugged, accurate, low-cost instrument for measuring alcohol concentration, BRIX, specific gravity, viscosity for wine producers of all sizes. At the heart of the MDM150 is an Integrated Sensing Systems (ISS) patented* mcroCoriolis™ digital liquid sensor based on a resonating U-shaped tube.

Rugged: The MDM150 is not only portable, but so strong and durable it can even withstand waist high drops onto concrete without any damage other than cosmetic.

Fast: Results are available within 5 seconds.

Easy: The sensor naturally rejects gas bubbles so degassing is not required.

A built-in rechargeable battery can operate the system continuously for many days.

For convience and portable use, an integrated back-lit 4 line LCD displays BRIX, specific gravity, viscosity and temperature.

Our easy-to-use WineSense™ software can be used to communicate with the MDM150 to configure, display, trend and store measurements from your product storeage location directly to your computer.

This unmatched combination of density and temperature measurement, WineSense™ patented technology and easy-to-use software creates a powerful system for wine production.

Thanks to the WineSense™ MDM150, year-around productivity increases and waste product is minimized which can help you increase overall product quality and profitability.

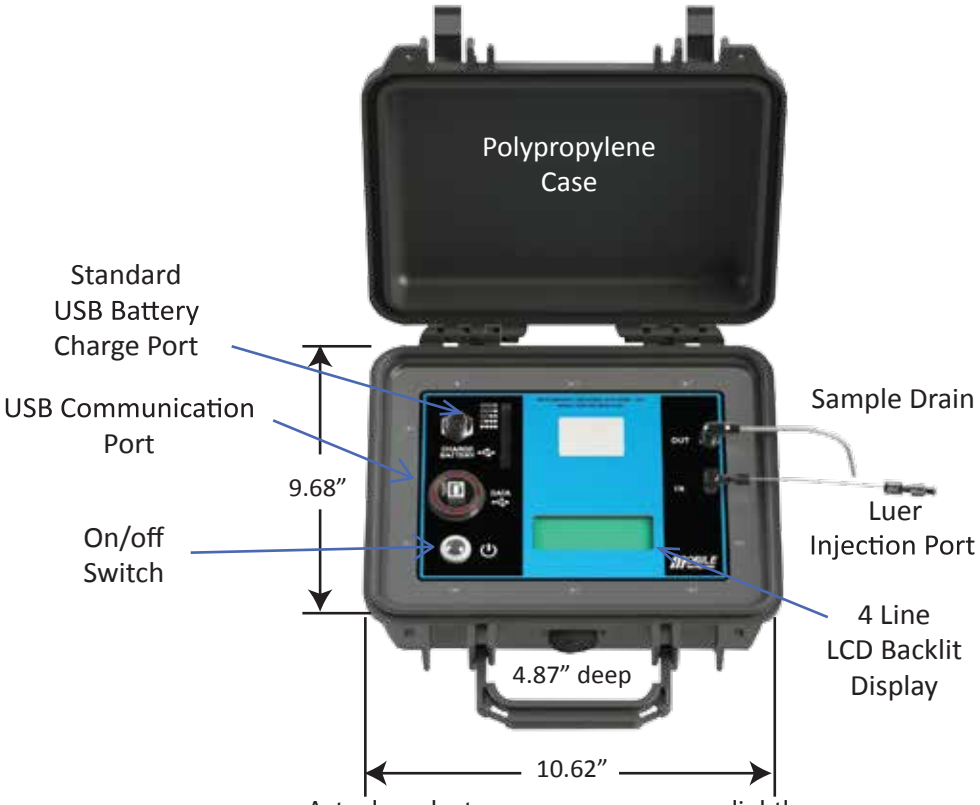
Plus, the viscosity of your wine is also measured, providing a new level of insight into the wine production process for your winery.

For an accurate, rugged, and easy-to-use device for your wine production measurement, look no further than the WineSense™ MDM150 from Integrated Sensing Systems.

Features

- **Rugged and Portable Design**
  Withstands the abuses found in a winery environment. No more concerns about damage due to mishandling.
- **Bubble and Gas Resistant Measurement**
  The micro density sensor's small dimensions result in a sensor that rejects bubbles to lock onto the correct density measurement extremely fast. No filtration is required for samples with particles less than 150 micron size.
- **Independent Operation**
  A rechargeable battery is included that will hold a charge for up to a month with normal daily use.
- **Minimal Calibration Required**
  The sensor is extremely stable. Regular maintenance consists of rinsing with water daily, cleaning with caustic and checking the zero monthly. Recalibration can be performed with deionized water.
- **Simple Operation**
  Samples are injected into the MDM150 using standard Luer syringes. Liquid waste is collected in a container.

Features and Dimensions



Actual product appearance may vary slightly.

Specifications

General	
Density Range	0.9-1.3 gram/cc
Accuracy	Digital Density: 0.0005 gram/cc Temperature: +/- 0.3 C (0.6F) BRIX: 0.1
Max Pressure	Internal 50 psig
Operating Temperature	41-140 F (5 to 60°C)
Materials	Case: Polypropylene Sensor wetted surfaces; Stainless steel, silicon, glass, high performance epoxy
Dimensions	10.62” x 9.68” x 4.97” (27 cm x 25 cm x 12 cm)
Weight	6 lbs. (2.72 kg)
Chemical Compatibility	MDM150 can withstand harsh acids and bases
Power	
Battery Recharging	USB Recharger 5 VDC / 2.0 A
Communication	
To PC	USB
Options	
Viscosity	0-50cP

LCD Display

Actual product appearance may vary slightly.

Order Information

The WineSense™ MDM150 is housed in a rugged poly case with latch and handle, a Luer inlet injection tube, drain tube and USB stick with optional Fluidic Software.

Model

WineSense™ MDM150

180006 Rev: A

*US Patents 6,477,901, 6,499,354, 6,637,257, 6,647,778, 6,923,625, 6,932,114, 6,935,010, 7,059,176, 7,228,735, 7,263,882, 7,351,603, 7,381,628, 7,437,912, 7,568,399, 7,581.429, 7,628,082, 7,789,949, 7,823,445, 7,921,737B2, 8,016,798, 8,021,961, Japanese Patent 4,568,763 and more patents pending

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