

Multifunctional Solid/Liquid Dual-Purpose Tester MD-300W

Applicable to: Rubber, plastic, film, cable and glass industries, as well as liquids, additives, and food research laboratories.

Principle: Solid mode: Complies with ASTM D297-93, D792-00, D618, D891, GB/T 1033, JIS K6530 and ISO 2781 standards. Adopts the Archimedean buoyancy principle for accurate, direct reading of measurement values.

Liquid mode: Complies with GB/T 5526, 13531, 15223, 5009, JIS and ISO specifications. Utilizes the Archimedean buoyancy principle for rapid, direct reading of liquid density values.



Solid Measurement: Apparent Density, Mixing Ratio, Specific Gravity & Volume Change Rate

Liquid Measurement: Relative Density, Concentration

Functions

- Equipped with a mixing ratio function that directly displays values in percentage (%), facilitating the R&D of new materials and the selection of optimal mixing ratios.
- Features upper and lower limit setting functions to judge the qualification of the measured object's specific gravity and concentration, with a built-in buzzer for prompt alerts.
- Comes with an RS-232C computer interface for easy connection to computers and printers.
- Adopts a large water tank design to reduce errors caused by the buoyancy of the suspension wire.
- Has specific gravity and volume change rate measurement functions (with adjustable reading time: 1/10/30/60 seconds).
- The liquid testing mode can compensate for errors induced by air buoyancy for accurate results.
- Directly displays the concentration value of the solution based on the measured specific gravity value, no additional calculation required.



Specifications

Parameter	Specification
Model	MD-300W
Weighing Range	0.005g ~ 300g
Solid Mode Accuracy	0.001 g/cm ³
Liquid Mode Accuracy	Density: 0.001 g/cm ³ / Concentration: 0.1%
Testing Time	Approx. 5 seconds
Solid Mode Display	Apparent Density, Specific Gravity & Volume Change Rate
Liquid Mode Display	Relative Density, Concentration %
Temperature Compensation	Solution Temperature Setting Range: 0 ~ 49°C
Solution Compensation	Solution Density Setting Range: 0 to 1.999 g/cm ³
Mixed Specific Gravity Function	Can set the mixing ratio for two components
Settings	Can set the density/specific gravity for different mixtures and the read time for volume change rate

Standard Accessories

Measuring platform, one-piece water tank, main unit, wind shield, power supply, tweezers, thermometer, special measuring tool for particles, 100g calibration weight, anti-buoyancy frame, operation manual (Simplified Chinese); Liquid Mode Special Accessories: Liquid-specific stand, glass weight, hook, 50CC beaker, support plate.

