

Plastic Resin Density Tester

Density of measurement is very important for both of raw materials and finished products. Used to ensure homogeneity to prevent product quality issues, such as strength and crack resistance can be affected.

Common used for Metal, Rubber, Plastic industries, Research & Development department and other solid or non-absorbent materials.



GP-E Series



TWS-E Series

Applicable for:

Plastic industrial / laboratory of HDPE, LDPE, LLDPE, Nylon, PC, ABS, PET, PETE, Vinyl, PVC, PP, PS and others.

Suitable for:

Hygroscopic Plastic – The inside of colloidal contains moisture, PA (Nylon), ABS, PET, PC & PS.

Non-Hygroscopic Plastic – The surface of micelles contain moisture, PE & PP.

Principle:

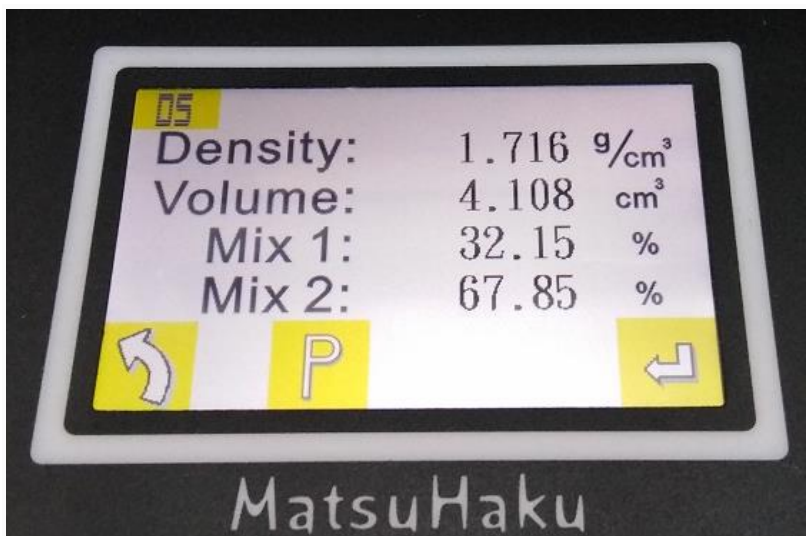
According to ASTM D297, D792, D618, D891, GB/T1033, JIS K6530, ISO 2781, 1183 standards, by adopting the buoyancy method of Archimedean principle, can accurately and directly measure the value.

Features for GP-E Series:

1. More humanized operation; it can meet the demand of on-site operating.
2. It has the function of showing mixture proportion, for the new materials research and the choice of mixture proportion, can directly show the proportion value.
3. It has the function of Hi and Lo limit, can judge whether the density of the sample is appropriate or not.
4. It adopts design of big tank, this can decrease the inaccuracy caused by supporting wire's buoyancy.
5. When using corrosive liquid as medium, the anti-corrosive water tank can be chosen.

Features for TWS-E Series:

1. Minimum Density and Volume resolution 0.001,
2. With 2 sets mixture ratio value%
3. More easier to operate by using touch screen display
4. The testing results are displayed on the screen at the same time.
5. Touch Screen: interaction dialogue is easy to operate it.



6. Temperature Sensor Interface: The temperature can be detected and compensate the measurement error automatically.
7. USB interface (without data cable): It can connect to PC.
8. RS-232 interface (without data cable): It can connect to printer and PC.
9. Can show mixture ratio and suitable for researching & developing new materials.
10. The temperatures of liquid medium which can auto detect by sensor and compensate for causing measurement error.

Technical Parameters:

Model	GP-300E / GP-600E	TWS-300E / TWS-600E
Testable Sorts	Solid, Pellet, Film, Floating Samples	
The maximum Weight	0.01 ~ 300g / 0.01 ~ 600g	0.01 ~ 300g / 0.01 ~ 600g
Weighing Precision	0.01g	
Density Precision	0.001g/cm ³	
Density Range	>1, <1 both can be measured	
Value Showed	Density, Volume, Mixture Ratio Value %	
Setting of Temperature and Solution Compensation	The solution density can be set to 19.999	
Density Setting of HI and LO limit	If can set the high and low limit of density	
Interface	RS-232	USB and RS-232
Standard Accessories	SST Angle (Use for Floating Sample), Glass Cup, Steel Net Ball (Use for Resins), Water Tank, Tweezers, Standard Weight, Glass Thermometer (GP series only), Temperature Sensor (TWS series only), Power Adaptor, Instruction Manual,	

Standard Equipments:
a. Anti-floating Frame

b. Pellet Measuring Tool

c. Anti Corrosive Water Tank

Optional Accessories:
a. Portable Thermal Printer


Density	: 1.001
Volume	: 16.193

Printing Sample Report
b. Windshield
