

# Multi Function Densimeter

Multi function Densimeter is capable of performing more than one function, which is performing measure of apparent density, bulk density and true density.





## Principle:

According to the standard of ASTM C 97 , D 5004 , C329 , GB/T9966 , 208, 217 , DIN51057, D297, D792, JIS K6530, ISO 2781, 1183, ASTM B311, ASTM B328, MPIF 42, MPIF 57, JIS Z2505, JIS Z2506, DIN 2738 and by adopting the buoyancy method of Archimedean principle and the true density measurement cooperated with Pycnometer. The density, volume, mixture ratio of dense solid materials can be showed.

## Feature:

Test Result - Apparent density, Volume, Mixture ratio %, porosity %, wet density, absorption %

<b>DS</b>	Density:	1.259	g/cm <sup>3</sup>
	Volume:	68.205	cm <sup>3</sup>
	Mix 1:	70	
	Mix 2:	95	
			


<b>BK</b>	Bulk DS:	0.019	g/cm <sup>3</sup>
	Wet DS:	0.094	%
	Porosity:	68.14	g/cm <sup>3</sup>
	Absorption:	89.65	%
			

Touch screen interaction dialogue is easy to operation

Temperatures sensor - Detected and compensate the measurement error automatically

RS 232 / USB interface - Thermal printer and computer

**Specification:**

Model	TWS-300PY	TWS-153PY	TWS-214PY
Weighing Range	0.01 ~ 300 g	0.01 ~ 150 g	0.001 ~ 200 g
Resolution	0.01 g	0.001 g	0.0001 g
Density Precision	0.001 g/cm <sup>3</sup>		0.0001 g/cm <sup>3</sup>
Volume Precision	0.001 cm <sup>3</sup>		0.0001 cm <sup>3</sup>
Measuring Mode	Apparent Density / Bulk Density & Bulk+5 / True Density		
Result Showed	Apparent Density	Bulk Density & Bulk+5	True Density
	Density, Volume & Mixture Ratio % of Content	Bulk Density, Porosity, Wet Density and Absorption	Density, Volume
Measuring Step	2 steps	3 steps	3 steps
Standard Accessories	Standard Weight, Water Tank, Tweezers, Glass Cup, Anti-float Angle Sheet, Power Cable, Instruction Manual		
Application	<b>Apparent Density</b> is performing density measurement of plastic resin, rubber, metals, wire, non-absorbent material, new materials.		
	<b>Bulk Density</b> is ceramic, foam, sponge, powder metallurgy parts, sinter oil-bearing, rock, hydrophilic materials.		
	<b>True Density</b> is measurement average density of a large volume of the powder, abrasive material, cement, carbon, MIM materials, zirconium powder, ceramic powder, ion powder		
Optional Accessories	a. Thermal Printer  <div style="border: 1px solid black; padding: 2px; width: fit-content;">             Density : 1.001              Volume : 16.193              Sample report           </div>	b. Windshield 	c. Pycnometer 