TOUCH TYPE - TWS-153/300T
POWDER, LIQUID DENSITY TESTER

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Made In Taiwan

Suitable for:

Powder: Vulcanized rubber, Non-foam plastic, Ceramic, Pigment density, Natural stone, Pigment density, Natural stone, Solid and half-solid asphalt density, Abrasive materials true density, Cement powder, Refractory materials, True density of rock or coal, Powder true density research lab.

Liquid : Acid Solution, Alkaline Solution, Saline Solution, Anti-oxidant Solution.

Principle:

Powder : According to the standards of **ASTM C97, D5004, C329, GB/T 9966, 208, 217, DIN51057,** and by adopting the immersion displacement method of the Archimedean principle, and cooperated with pycnometer, it can show the measuring result directly.

Liquid : According to the standard test method of **GB/T13531, T5526, T5009, ASTM, JIS** and ISO standards, by adopting the buoyancy method of the Archimedean principle, the density and concentration can be showed rapidly.

Mode:

Two sets of testing function:

1. Powder mode - Show powder true density directly.
2. Liquid mode – Show liquid density and concentration directly.

Style:

Liquid Type

Powder Type

Specification:

Model	TWS-153T	TWS-300T
Max weight	150g	300g
Weighing Precision	0.0001g	0.001g
Density Precision	0.0001g/cm³	0.001g/cm³
Powder Mode	Can directly read powder and granular true density.	
Liquid Mode	Can read the specific gravity and concentration of liquid medium liquid	

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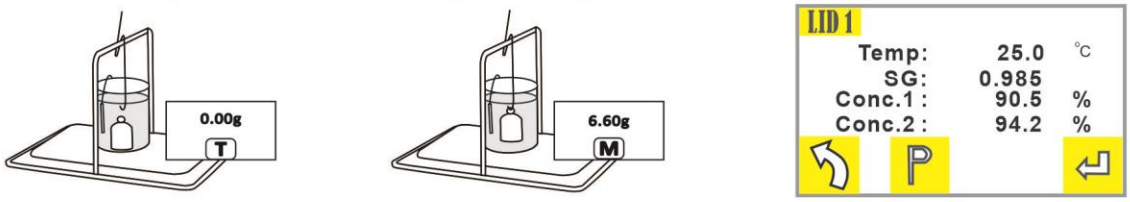
Testing step:

E.g. (Powder)

Step 1: Testing sample air weight → Step 2 : Testing sample and liquid weight → Step 3 : Testing sample into liquid weight → Step 4 : Get the result

E.g. (Liquid)

Step 1: Re-zero the weight → Step 2 : Hooking the glass weight → Step 3 : Get the result



Standard Accessories

For powder:

Pycnometer

Optional Accessories

For liquid:

A: Glass Weight
(general acid, alkaline liquid)

B. Stainless Steel Weight
(High viscosity liquid)

C. Teflon Weight
(Acid & alkali resistant liquid)

Features:

1. Choose a liquid that doesn't dissolve and easily wets the surface of the sample particles.
2. For ceramic materials such as feldspar, quartz, and ceramic products distilled water can generally, be used as an intermediary solution.
3. For cement, organic liquid media such as kerosene or xylene can be used.
4. Organic solvents are generally used for inorganic powder.
5. Use agate bowl to grind sample into powder and pass a 240-mesh standard sieve, and put the powder sample into a weighing bottle.
   Put it into 105° infrared moisture meter to dry, take it out, cool it slightly, and put it in a desiccator to cool to room temperature.