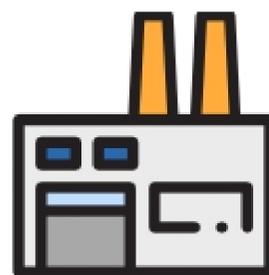


## Multi-function Solid & liquid Density Tester

**For** factories and component companies of professional production type, there is often a need to repeatedly measure solid and liquid samples.

In order to provide a **more convenient** and fast measurement method of **density, volume, mixing ratio, concentration** and **specific gravity**, we launched the **TWS-S professional multi-function density tester**, which can perform more efficient quality control by replacing machine accessories and achieve the effect of one machine with two functions.



### International Standard

MatsuHaku Solid & Liquid density tester uses Archimedes buoyancy method to quickly detect samples.

Refer to the international standard

**ASTM/D297-93, 792-00, 891, GB/T5526,13531, JIS6530, ISO2781.**

## TWS-300S Solid Mode

Show the **density, volume and mixing ratio** of the sample directly. To overcome the problem of inaccurate data, and obtain the sample density value with the most accurate and fast way.

### Features

1. With the function of mixing ratio, measure the ratio of the main materials in the two mixed materials.
2. With Infrared temperature sensors can automatically detect the water temperature and automatically compensate for water temperature.
3. With upper and lower limit functions and buzzer device, can determine whether the specific gravity of the test object is qualified or not.
4. The large tank design is to reduce the error caused by the buoyancy. The size of the water tank is 148 × 100 × 85mm.



Testing steps  
of solid mode

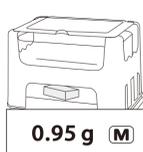
Weight in air



Weight in water



Results:



<b>DS</b>		
Density:	1.204	g/cm <sup>3</sup>
Volume:	3.620	cm <sup>3</sup>
Mix 1:	71.36	%
Mix 2:	18.64	%

## TWS-300S Liquid Mode

Show the **specific gravity & concentration** of the solution by using the **water replacement method**. In addition to measuring **general solutions, high viscosity, suspensions, emulsions**, and even **colloidal dispersions** can be used with this machine. Besides that, the liquid mode is equipped with a temperature probe to accurately detect the current temperature of the solution with measurement, which can more easily and consolidate the sample data.

### Features



1. Just 50cc, the machine can show the liquid density rapidly. Any weight can be as the standard value, easy to operate.
2. According to the characteristics of the liquid, you can choose the weight set you need.
3. Optional Teflon weight set to measure the specific gravity of hydrofluoric acid liquid.

Testing steps  
of liquid mode

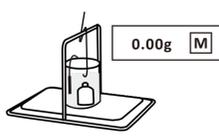
Re-zero  
the weight



Hooking the  
glass weight



Results:



<b>LID 1</b>		
Temp:	25.0	°C
SG:	0.985	
Conc.1:	90.5	%
Conc.2:	94.2	%

**The first condition to consolidate quality is to thoroughly explore the density.**

## MatsuHaku Density Tester Keep You Aware Of

1. **Reduce** the cost and the **Defect** loss
2. Fit the international **Standard**
3. Make sure the quality **Stable**



*With MatsuHaku Density Tester  
Quality control is more easier than you thought*