

TOUCH TYPE - TWS-214/215PY

HIGH PRECISION POROUS PRODUCT SOLID DENSITY TESTER



Suitable for:

Elastic materials, sponges, EVA materials, EPDM plastics, Rock, Mineral mining, Refractory materials, Aggregate concrete, Graphite, and Carbon Electrode...etc.

Principle:

According to **ASTM C20, C128, C127, C134, C135, C437, C357, GB/T2997, 2998, 2999, 6155, 23561, 24203, 24528, AASHTO T84** standard and by adopting the buoyancy method of Archimedean principle.

Function:

It has four modes:

1. BULK — Adopting water saturation method for porous material. Show Bulk density, Wet density, Porosity, Absorption, Apparent DS, Open pores, Close porosity, Total porosity.
2. BK+ — Adopting water saturation method for porous absorbent material. With five groups of memory functions.
3. P — For powder products, use a pycnometer (optional) to directly read the true density.
4. DS — Nonabsorbent material. Show Density, Volume, Mix ratio directly.

Style & result:

Bulk	
Bulk DS :	1.0379 g/cm ³
Wet DS :	1.4260 g/cm ³
Porosity :	38.81 %
Absorption :	37.39 %

Bulk	
Apparent DS :	1.7012 g/cm ³
Open pores :	1.9940 cm ³
Close pores :	3.35 %
Total porosity:	42.16 %

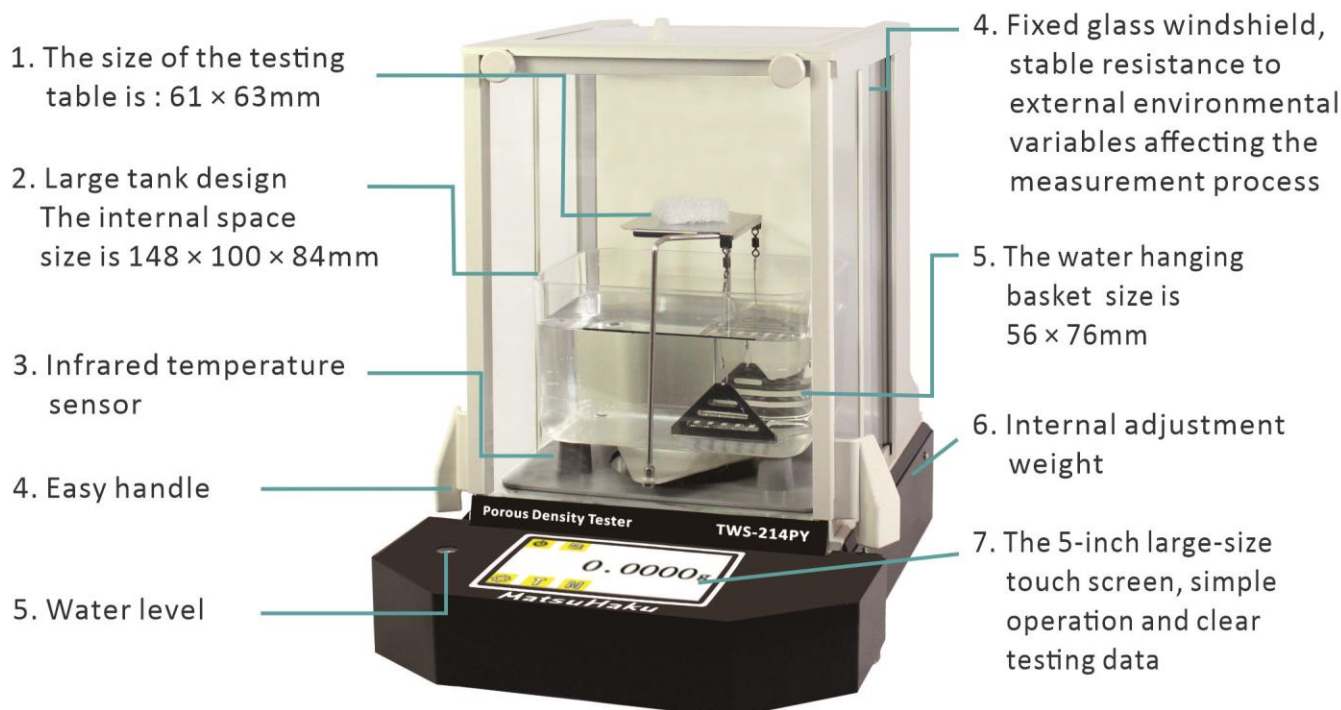


Specification:

Model	TWS-214PY	TWS-215PY	
Max weight	0~210g	0~42g	42~210g
Weighing Precision	0.0001g	0.00001g	0.0001g
Density Precision	0.0001m ³	0.00001m ³	
Setting	With temperature compensation, solution compensation functions and medium solution of waterproofing process density setting.		
Temperature Function	With Infrared temperature sensors can automatically detect water temperature		

Analysis Chart:

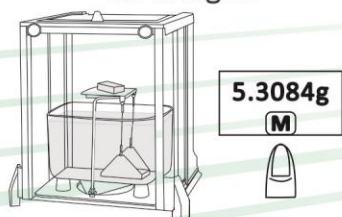
Highlights Analysis Chart



Testing step:

E.g. (Porous solid)

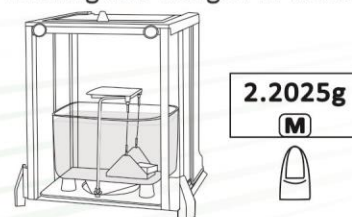
Step 1:
Testing sample
air weight



Step 2 :
Doing the
waterproofing process

Method:
1. Vacuum saturated
2. Boiling saturated water
3. Immersion saturated

Step 3 :
After waterproofing,
testing the weight in water



Step 4 :
After waterproofing,
testing the wight in air



Step 5 :
Get the result

Bulk	
Bulk DS :	1.0379 g/cm ³
Wet DS :	1.4260 g/cm ³
Porosity :	38.81 %
Absorption :	37.39 %

Bulk	
Apparent DS :	1.7012 g/cm ³
Open pores :	1.9940 cm ³
Close pores :	3.35 %
Total porosity:	42.16 %

Features:

1. With the latest touch screen, simple operation and immediately display all measurement data.
2. With the RS-232C computer interface, it can be easily connected to a PC and printer.
3. With Infrared temperature sensors can automatically detect water temperature and automatically