

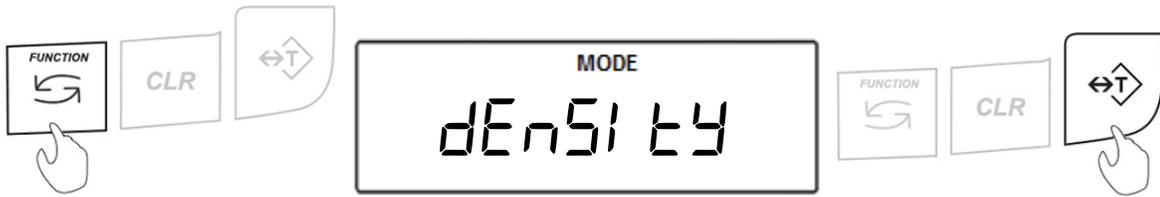
# Density Measurement

The density calculation feature is used to assist in calculation of density in solids and liquids. To perform density calculation, a Density Kit (part no. AGC9171) is required.

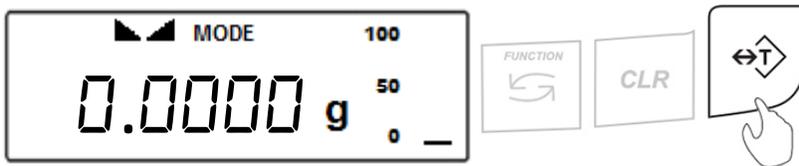
## Calculation Formula

### 22.1 Solid

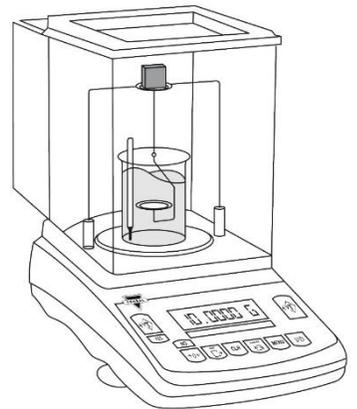
1. To enter Density measurement, press the “Function” key. Select “density” by pressing the “T” key.



2. Press the T key to tare the balance



3. Once the scale has been tared, place the solid object on the upper pan of the density kit to perform a weighing
4. Once the weight of the object stabilizes, press the Print key. M1 “m1” will be displayed indicating that the weight of the object in air has been stored in the formula.
5. Remove the object from the upper pan of the density kit and place it on the lower pan of the density kit to perform a weighing in liquid.
6. Once the weight of the object stabilizes, press the Print key. M2 “m2” followed by command RESULT “RESULT” will be displayed, indicating that the weight of the solid in the liquid has been stored in the formula and the density calculation has been performed.
7. The density of the object will be displayed and locked on the LCD.



## 22.2 Liquid

1. To enter Density measurement, press the “Function” key. Select “DENSITY” by pressing the “T” key.

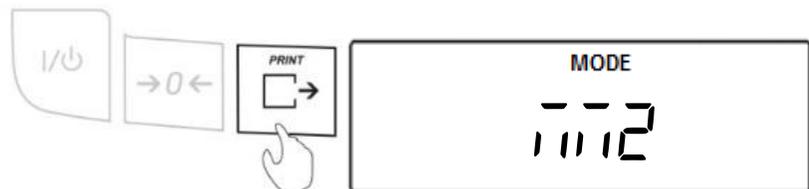
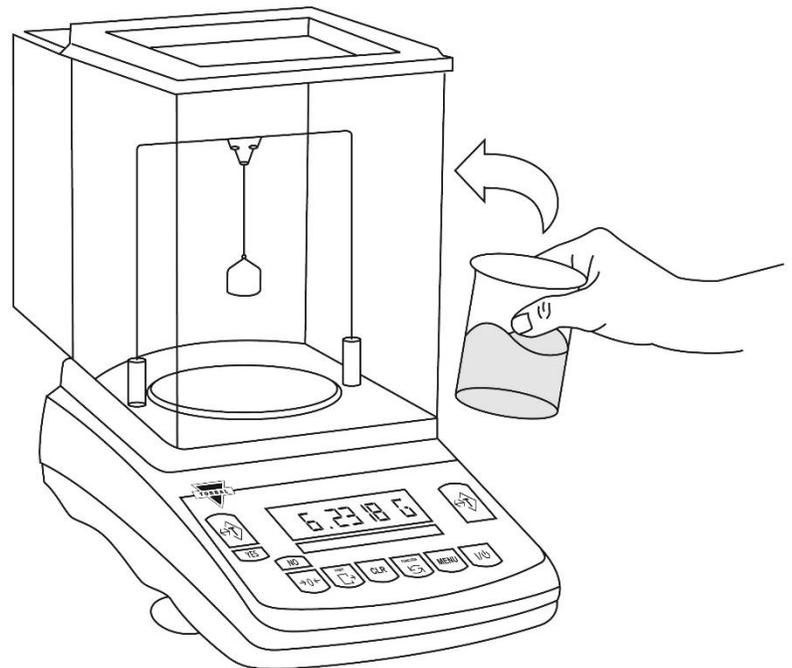
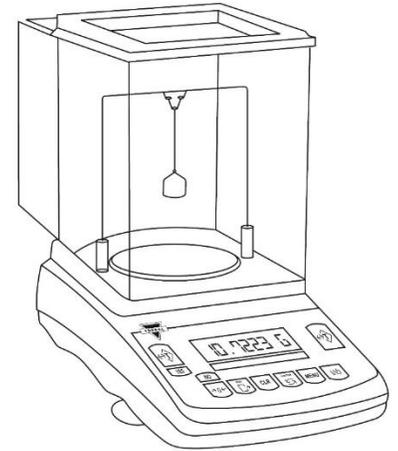
2. Press the T key to tare the balance

3. Once the scale has been tared, hang the plunger on the wire support frame of the density apparatus.

4. The weight of the plunger will be displayed. Once the weight is stable, press the Print key. M1 “1111” will be displayed, indicating that the weight of the plunger has been stored in the formula.

5. Submerge the plunger, by placing the beaker with the liquid on the base of the density apparatus.

6. As the plunger displaces the liquid in which it is submerged, the weight will decrease. Once the new weight stabilizes, press the Print key. M2 “1112” followed by RESULT “RESULT” will be displayed indicating that the new weight of the plunger has been stored in the formula and the density calculation has been performed.



7. The density of the liquid will be displayed and locked on the LCD.