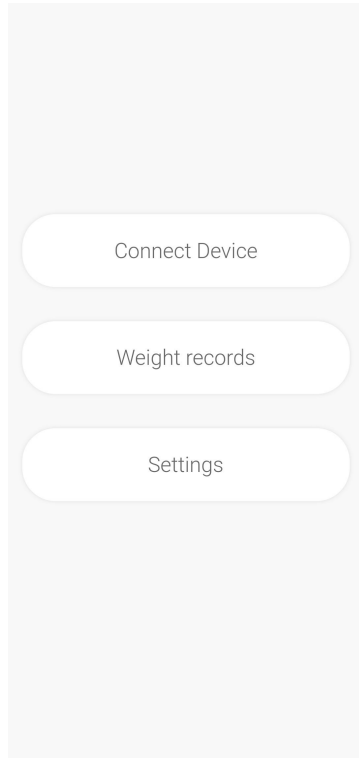


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Home

Open the U.S Solid Balance app or click the [**HOME**] menu item on the lower navigation menu to view the **HOME** screen.



Connect Device

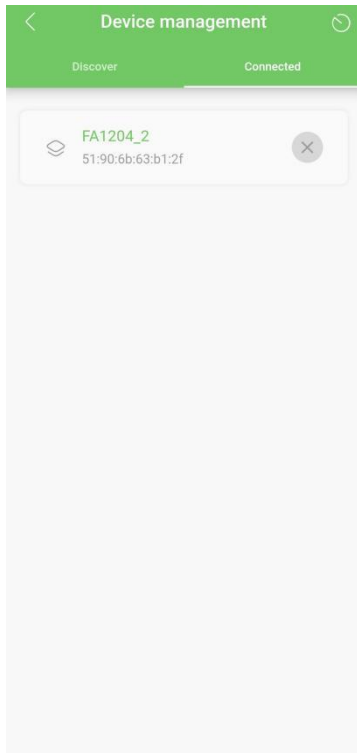
1. Discover

Find your U.S. Solid Balance in the list of discovered devices. Click on its [**PAIR**] button to connect your mobile device to your balance. Once connected, the app will automatically advance to the **CONNECTED** screen.



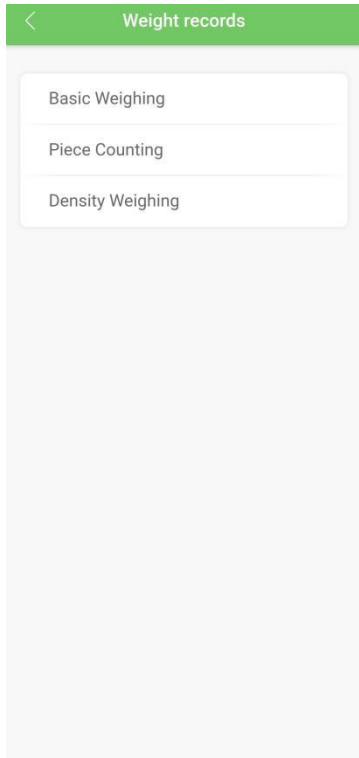
2. Connected

Select the [**Connected**] tab to view any connected balance. The app will navigate to the **FUNCTION** screen by clicking on it from the list.



Weight records

Click on the [**BASIC WEIGHING**], [**PIECE COUNTING**] or [**DENSITY WEIGHING**] menu items to check their corresponding records.



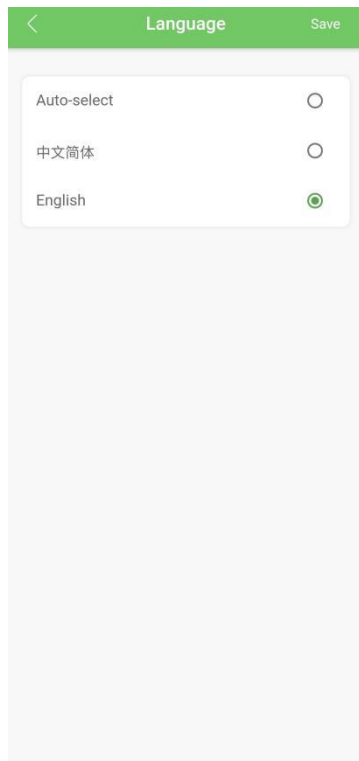
Settings

Click the [**SETTINGS**] menu item to view the app's system settings.

1. Language

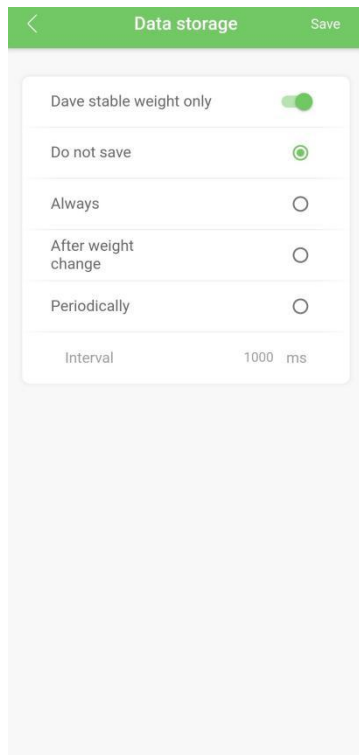
Choose the [**LANGUAGE**] menu item to select your preferred language.

You can choose Auto, Simplified Chinese, or English.



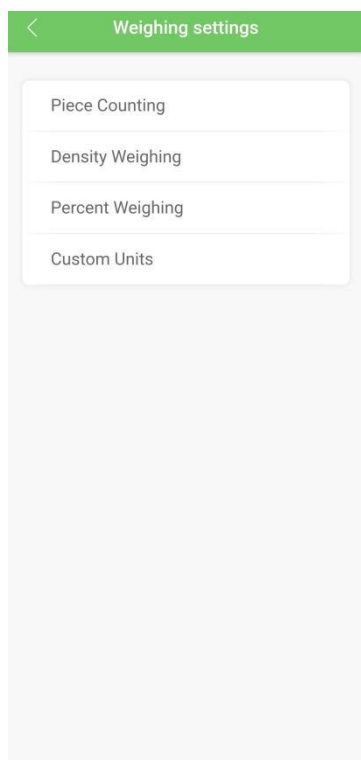
2. Data Storage

Enable/Disable the saving of the stable weight only by switching the **[Save stable weight only]** switch on or off.



Choose the **[Disable]**, **[Always]**, **[After weight change]**, or **[Periodically]** data saving option to select your data saving frequency preference. Click on the **[SAVE]** button to save your preference.

3. Weighing Settings



- Piece Counting: Click on the **[PIECE COUNTING]** menu item to set the *default sample count value*. Once set, click on the **[SAVE]** button to save the value.

- Density Weighing: Click on the **[DENSITY WEIGHING]** menu item to set the air density and alpha. Once set, click on the **[SAVE]** button to save these values.

- Percent Weighing: Click on the **[PERCENT WEIGHING]** menu item to set the default reference percentage, default target percentage, default

negative error and default positive error values. Once set, click on the **[SAVE]** button to save these values.

- Custom Units: Click on the **[CUSTOM UNITS]** menu item to create custom measurement units.

To create a new custom measurement unit:

- ① Enter the name of the new custom unit in the **[NAME]** text field;
- ② Enter an abbreviation of the new unit in the **[ABBREVIATION]** text field;
- ③ Enter the number of decimal places in the **[DECIMAL PLACES]** text field;
- ④ Enter the 1.0 gram equivalent value of the new custom unit in the **[1g =]** text field;
- ⑤ Save your newly defined custom measurement unit by clicking on the **[SAVE]** button.

Delete Custom Units:

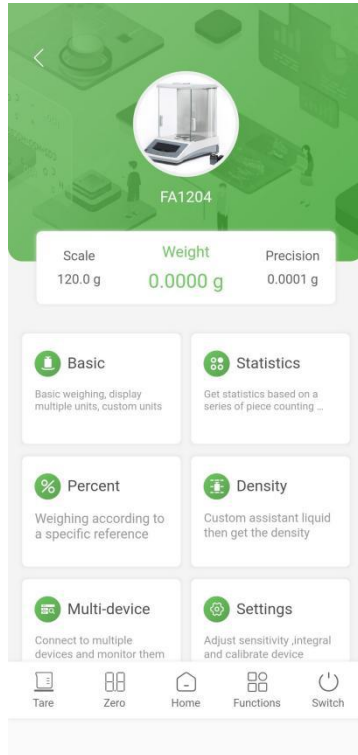
To delete a custom unit in the **STORED CUSTOM UNITS** section, simply click on its **[REMOVE]** icon on the right.

4. Software Version

The **VERSION** item displays the application's current version.

Functions

Functions menu screen.

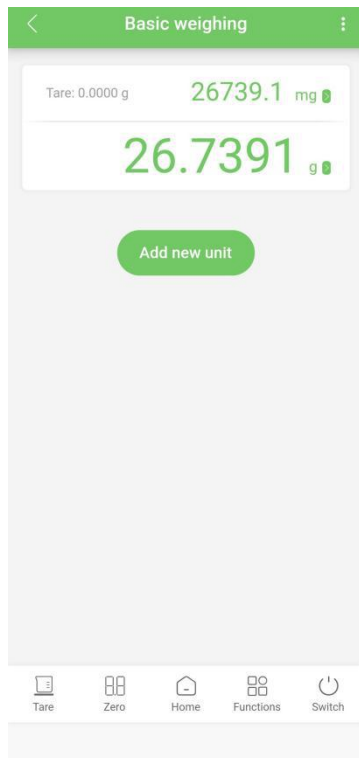


Basic

To perform a basic measuring:

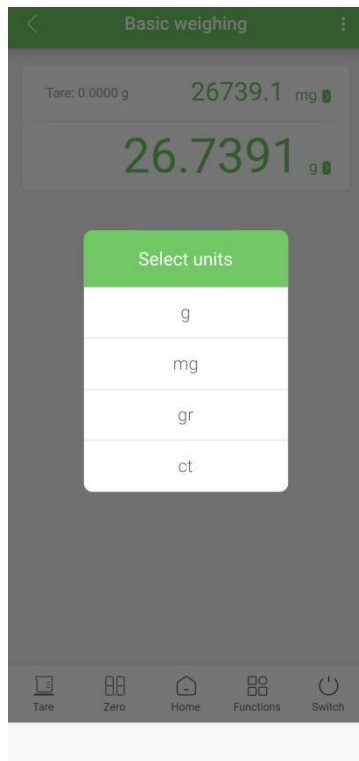
Place the sample on the balance's weighing pan. The result will then be displayed.

1. Click the arrow ([>]) button to the right of the reading's value to change the measurement unit;



2. Click the **[Add new unit]** button to add other units. Scroll up or down to select gram (**[g]**), milligram (**[mg]**), grain (**[gr]**), carat (**[ct]**), pound (**[lb]**), microgram (**[µg]**), ounce (**[oz]**), or any stored custom unit;

3. Click the three vertical dots (**[⋮]**) on the upper right of the screen to reveal the **[MORE]** menu. You can add **[CUSTOM UNITS]** or view **[WEIGHT RECORDS]** from this menu;

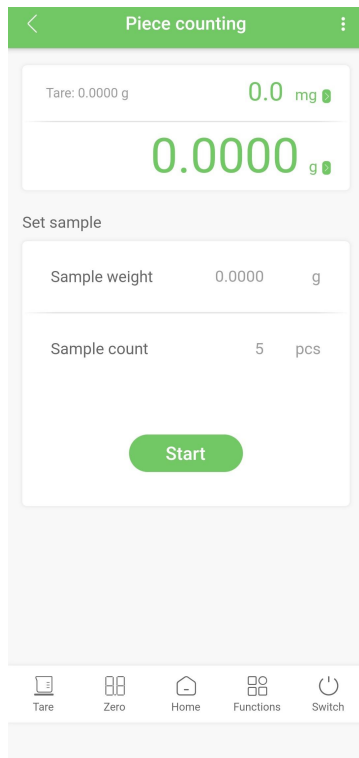


Statistics

The [***STATISTICS***] menu allows you to manage the balance's **PIECE COUNTING** feature.

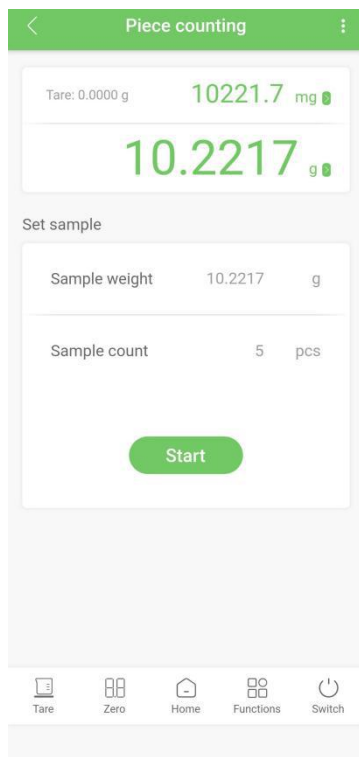
To use the **PIECE COUNTING** feature:

1. Set the reference sample count by clicking the number to the right of the ***SAMPLE COUNT*** text;

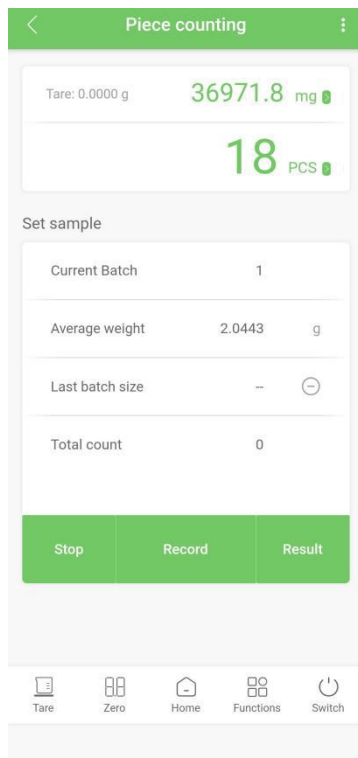


2. Place the reference sample(s) on the weighing pan;

3. Click the **[START]** button below when the reading stabilizes;



4. Place the target sample(s) on the balance's weighing pan. The result will then be displayed;



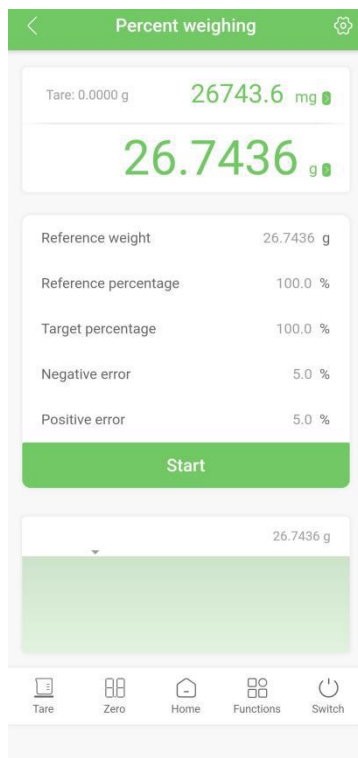
- Click the **[STOP]** button to finish the task and return to the main **PIECE COUNTING** screen.
- Click the **[RECORD]** button to store the results.
- Click the **[RESULT]** button to view the details of both the result and records.
- Click the **[SAVE RESULT]** button to store the results. You may enter a comment for the result before clicking the **[SUBMIT]** button.
- Click the three vertical dots (**[⋮]**) on the upper right of the screen to reveal the **[MORE]** menu. You can set the default sample count or view piece counts history from this menu.

Percent

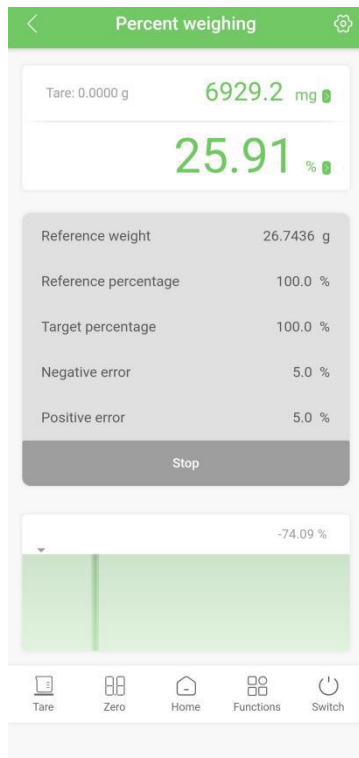
The [**PERCENT**] menu item allows you to manage the balance's **PERCENT WEIGHING** feature.

To perform percent weighing:

1. Place the reference sample on the balance's weighing pan;
2. Click the [**START**] button below when the reading stabilizes;



3. Place the target sample on the weighing pan. The result will then be displayed;



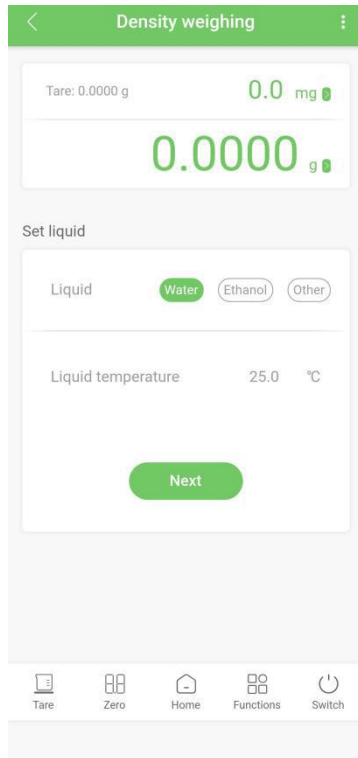
- Click the **[STOP]** button to restart another **PERCENT WEIGHING**.
- The diagram below indicates the percentage of the target weight over the reference weight.
- Click the **[GEAR]** settings icon on the upper right to set the default reference percentage, default target percentage, default negative error and default positive error values. Enter the values in their respective text field and then click on the **[SAVE]** button to store them.

Density

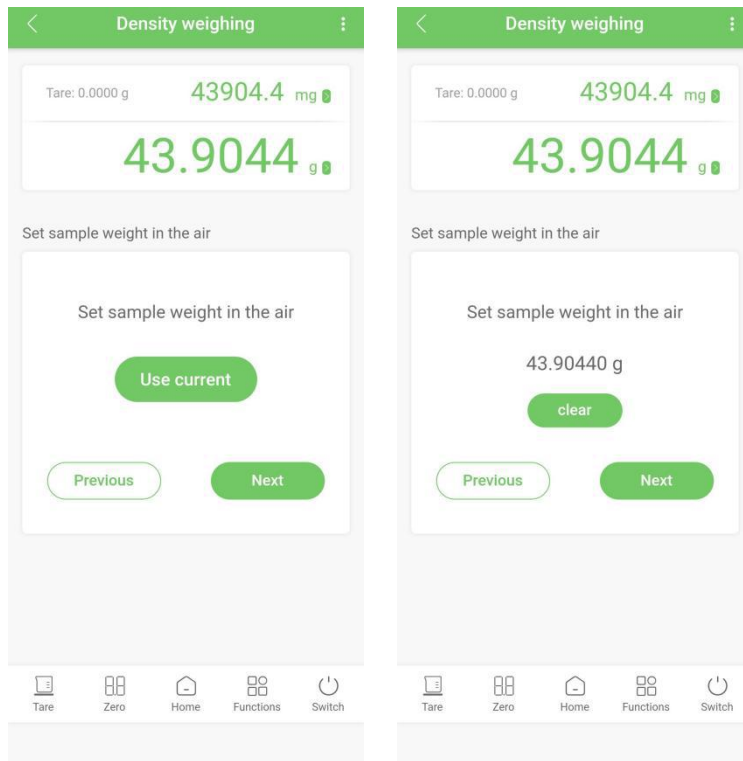
The **[DENSITY]** menu item allows you to determine a sample's density.

To measure a sample's density:

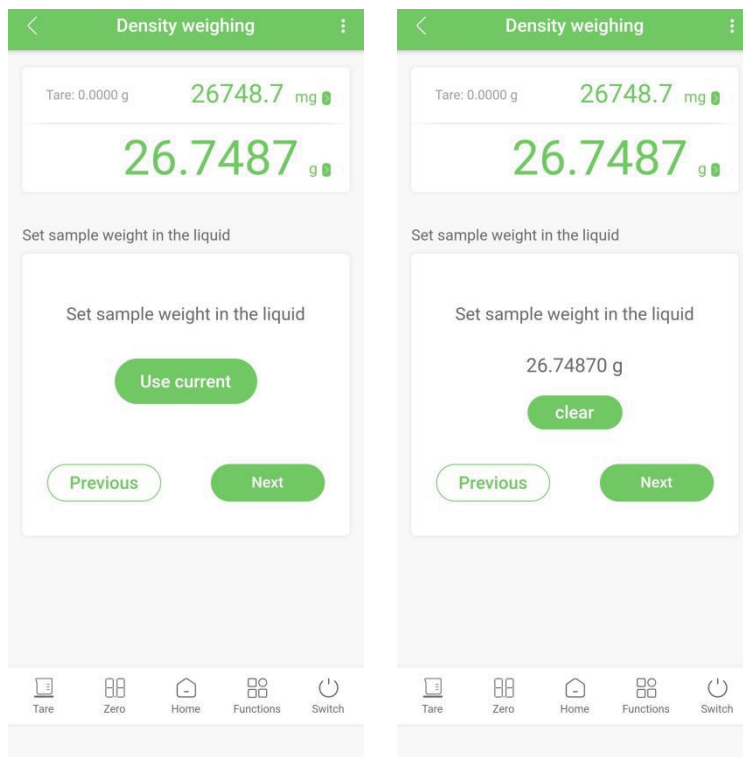
1. Selecting the liquid for the density you require;
2. Entering the liquid's temperature. *This is important because a given liquid can have differing density values at different temperatures;*



3. Place the sample on the balance's weighing pan and click the **[NEXT]** button;
4. Click the **[USE CURRENT]** button to get the sample weight of the air, and then click the **[NEXT]** button;

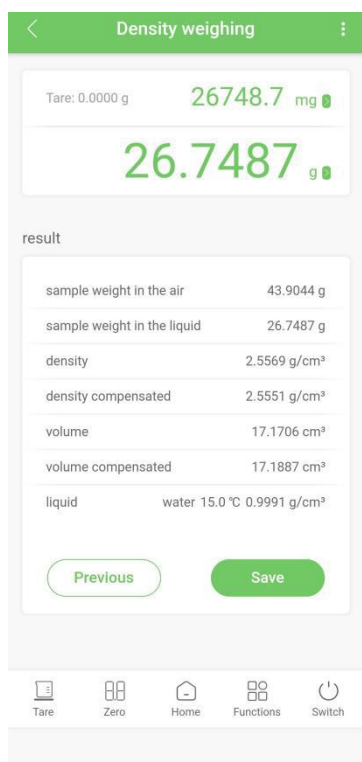


5. Place the density device with sample on the balance's weighing pan;
6. Click the **[USE CURRENT]** button when the reading stabilizes to determine the sample weight in liquid;



7. Click the **[NEXT]** button to view the **RESULT** screen;

8. Click the **[SAVE]** button to store the results. You may enter a comment for the result before clicking the **[SUBMIT]** button.



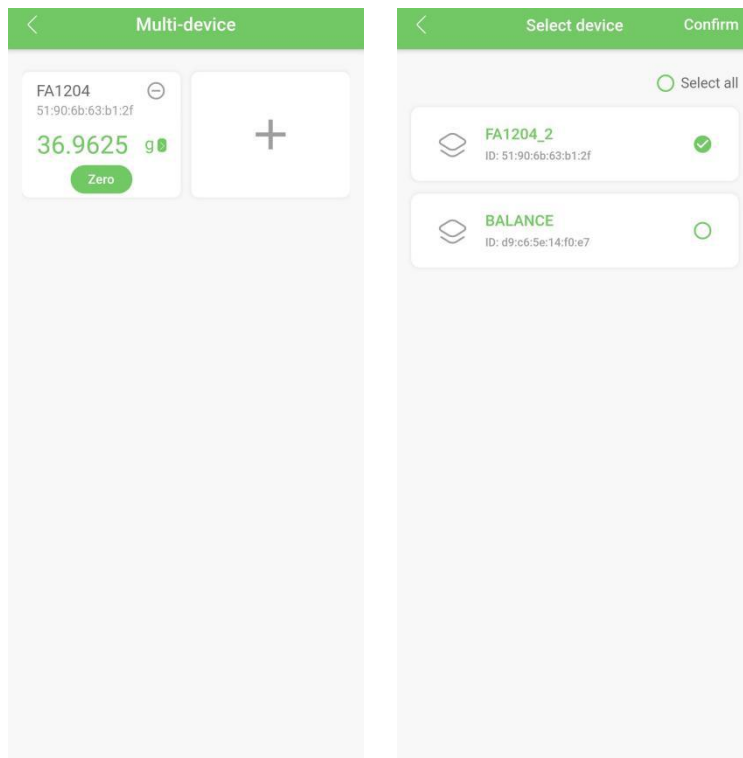
Multi-device

The **[MULTI-DEVICE]** menu item allows you to add additional balances to the app.

Note: the additional balance must be present on the **CONNECT DEVICE screen prior to adding it to this **MULTI-DEVICE** section.*

To add an additional balance:

1. Click on the button with the plus ([+]) sign to see any available additional devices;
2. Select the device you wish to add in the list and click the [CONFIRM] button to store the added device;
3. The readings of each device will then be displayed on the **MULTI-DEVICE** screen.



To remove a balance from the multi-device list:

- Click the minus ([-]) sign in the upper right corner of the device's tile.

Additionally, you can:

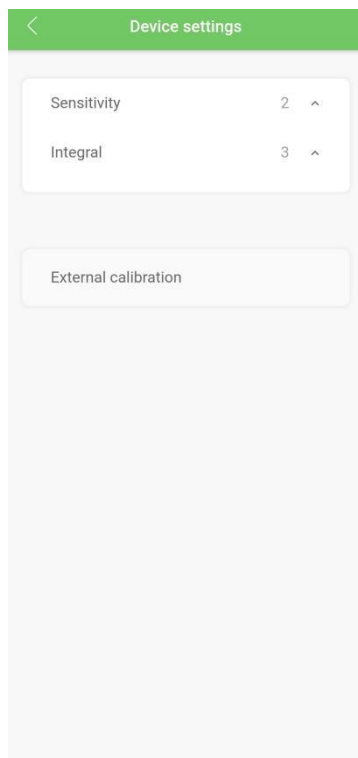
- Click the arrow ([>]) button to change the balance's measurement unit.
- Click the [ZERO] button to zero the device's reading.

Settings

The [**SETTINGS**] menu item allows you to manage the balance's setting and external calibration.

1. Sensitivity

Click the upwards arrows ([**^**]) on the right to select the balance's **SENSITIVITY** and **INTEGRAL** setting respectively.

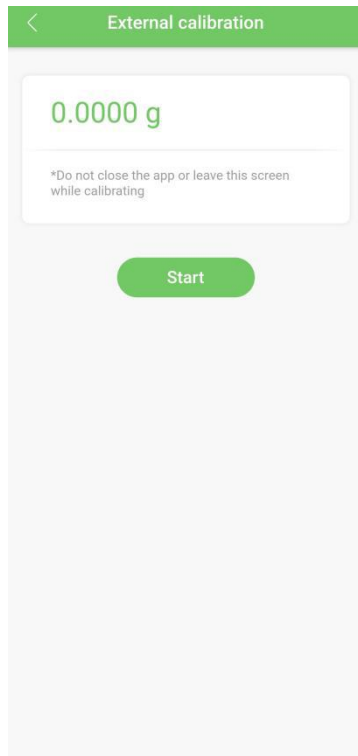


2. Calibration

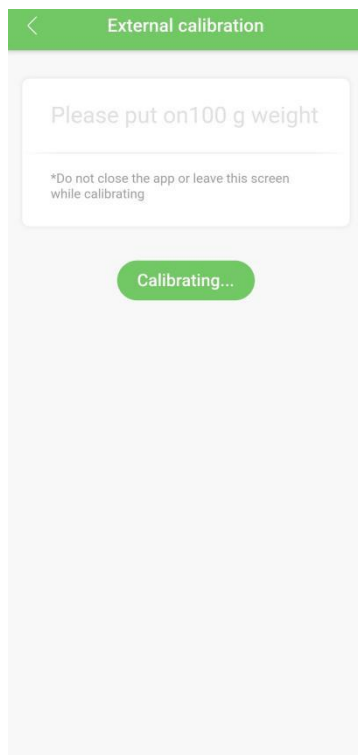
The [**EXTERNAL CALIBRATION**] menu item allows you to manage the balance's calibration.

To calibrate the balance:

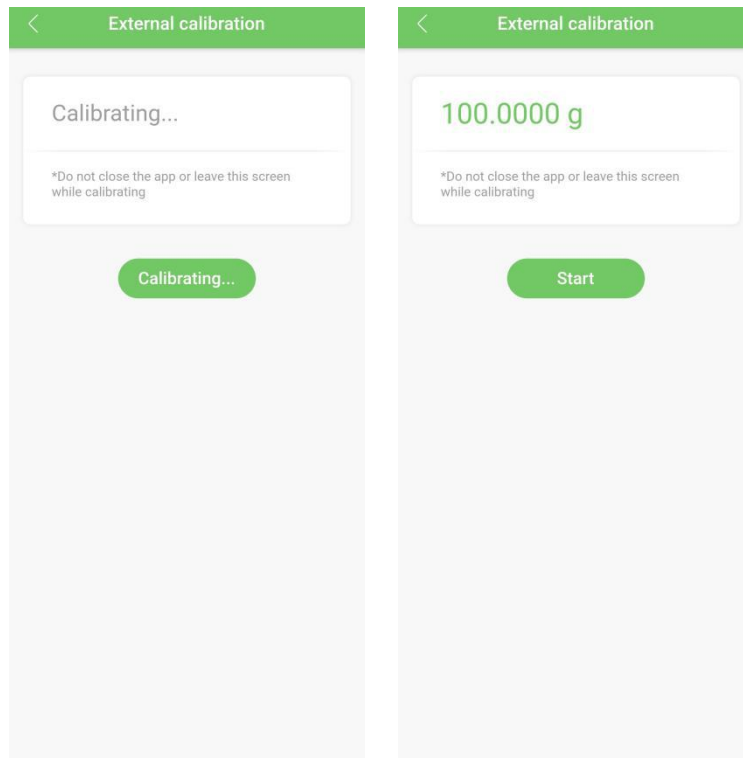
1. Click the **[START]** button to begin the calibration function;



2. Place the 100g calibration weight on the balance's weighing pan when instructed to do so;



3. The “Calibrating...” message will be displayed for a brief moment. And the calibration will be complete when the status message shows “100.0000 g”.



Tare

Click the [**TARE**] menu item to remove tare weight.

Zero

Click the [**ZERO**] menu item in order to zero the reading when the weighing pan has no load.

Switch

Click the [**SWITCH**] menu item to end the operation of the balance.