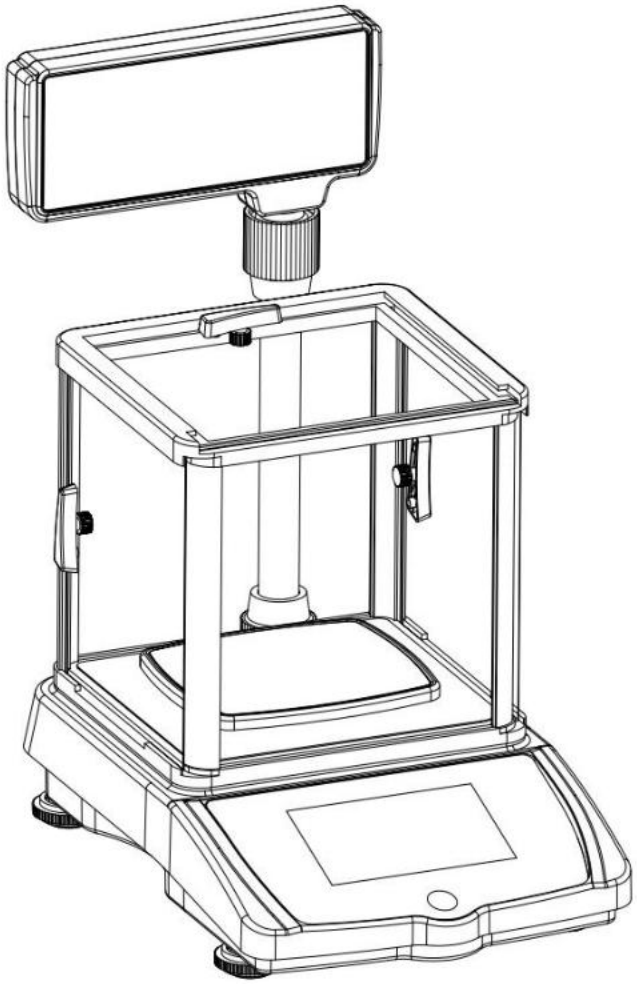
FPH-T Series
User Manual



V1.0

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Safety precautions

- **Use only the correct AC adaptor with the scale. Other adaptors may cause permanent electrical damage.**
- **Avoid overloading the scale, as this may cause permanent damage and void your warranty – do not exceed the maximum capacity of the scale.**
- **Keep the scale away from water – this scale is not water resistant. Shock, injury and electrical damage can occur if used in a wet location.**
- **Matter charged with static electricity could affect accuracy. Discharge all static electricity. For example, one method is to use Static-Guard spray, and spray it on both sides of the weighing platform.**

Error codes

Err-O: Err-O means scale overload.

Trouble shooting: Take away the overload objects and make sure that do not place objects on the platform that exceeds its capacity.

Err-2: Err-2 means scale is not able to return to Zero.

Trouble shooting: Check if the scale is placed in a stable environment or not. If yes, try to recalibrate the scale. If it still does not work, please contact after-sales service. Most likely it is because something is wrong with the connection between your indicator and load cell.

Err-S: Err-S means scale is not stable.

Troubleshooting:

1. Please place the scale in a flat, clean and stable surface. No strong wind, no electromagnetic interference. Then check the platter to see if it is well attached to the scale main body. Most of the Err-5 were because the platform hit the scale's main body that makes the inner code not stable.

2. If it is still not work. Please consider to recalibrate the scale. If recalibrate still not work, it might because the main board bonding problem or load cell problem that user cannot fix by themselves. Contact after-sales service to obtain more information.

Err-C: Err-c means failure to place calibration weights on the scale during calibration or the AD value is too low.

: Low battery, charge the battery.

WEIGHING

Before weighing

Turn on the switch at the bottom right of the scale before weighing. Whenever possible, allow the scale to warm up for a few seconds after first turning it on to ensure proper and accurate operation of the scale.

Weighing procedures

1.Turn on the electronic scale.
After turning on the power, "0" will appear on the display.

2.Tap unit indicator to select the weighing unit
Once you select a unit, the selected unit will appear next to the weight value.

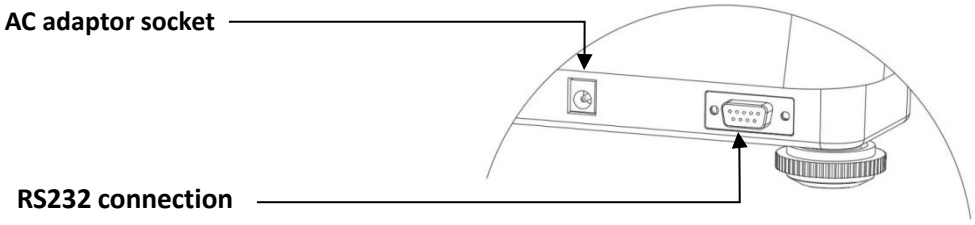
3.Start weighing
If you do not use a container for weighing
Make sure that the reading is "0". If not, tap [0] to return to "0".
Place the object on the platform .
Read readings on the screen.

If you use a container for weighing
Place an empty container on the platform.
Wait for stabilization and then tap [T].
Place the object in the container.
Read the tared reading on the screen.

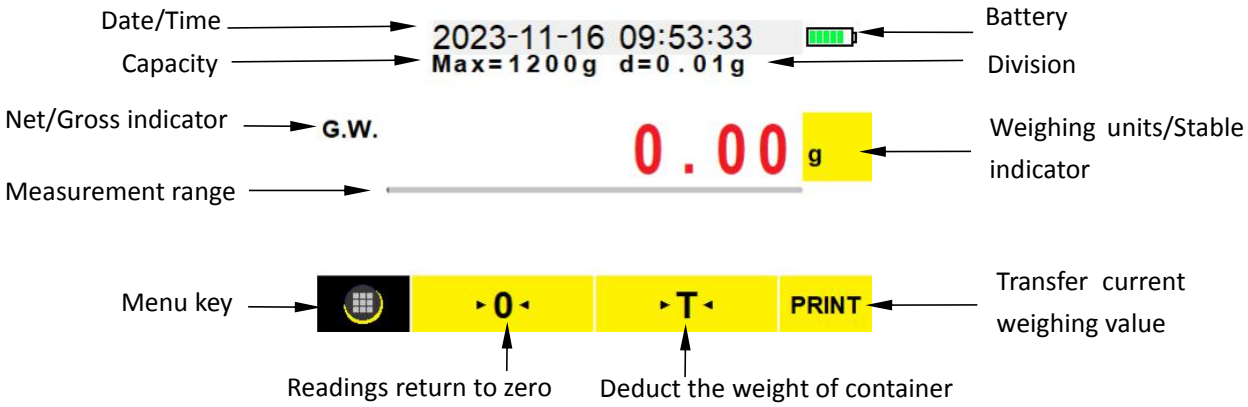
FEATURES

Auto calibration
Auto zero tracking
Low battery indication
Large touch screen display
High precision load cell
Price computing function
Counting function
Data transmission by RS232 serial port
Percentage function
Density function
Time and date setting
Backlight brightness selection function
Gross/Net weight weighing function
Stainless steel platform
16 Units:g,ct,oz,lb,ozt,GN,dwt,tl.T,tl.H,tl.J,dr,MM,tola,gsm,T/A/R,T/M/R

PARTS DESCRIPTION

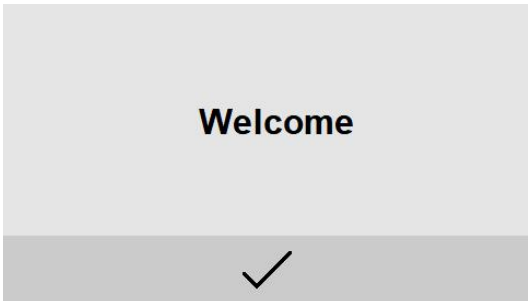


Display messages:



Program options

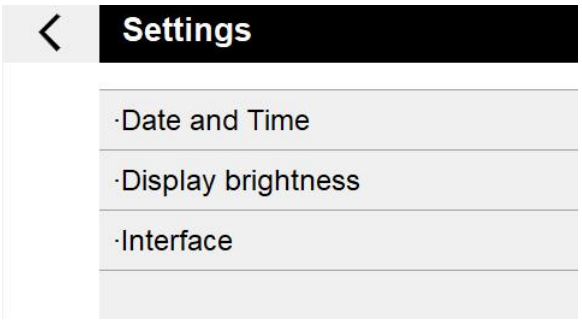
1. Turn on the switch at the bottom right of the scale, the display will show



2. Tap ✓, the display will show

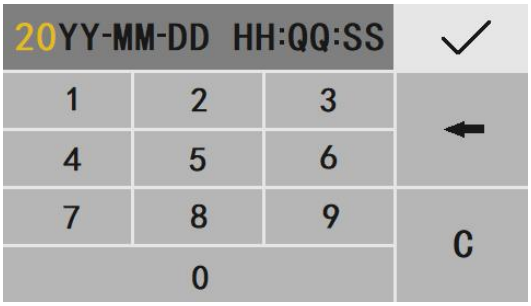
3. Tap , the display will show

4. Tap , the display will show



Date and time Setting

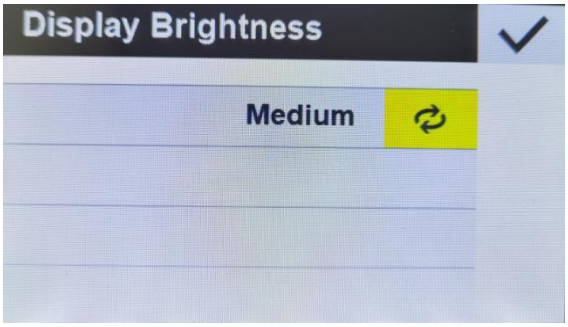
Tap Date and time, the display will show



Tap on the numbers key enter the date and time, tap ✓ to save the setting.

Display brightness Setting

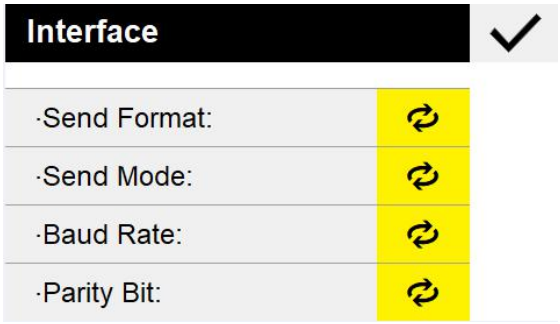
Tap Display brightness, the display will show



Tap to select from Medium, Slight or Bright, tap ✓ to save the setting.

Interface Setting

Tap Interface, the display will show



Tap to select:

Send Format: PM / FT, default setting is PM.

Send Mode: Key/Stb / Con /OFF, default setting is key.

a) **OFF stands for serial data output disabled.**

b) **Key stands for manual mode by pressing [PRINT].**

c) **STB stands for automatic output data when the reading is stable.**

d) **CON stands for output data continuously.**

Baud Rate: 1200/2400/4800/9600, default setting is 9600

Parity/Bit: 8,N,1/7,O,1/7,E,1, default setting is 8,N,1.

a) **7,O,1 stands for 7 data bits with odd parity,**

b) **7,E,1 stands for 7 data bits with even parity,**

c) **8,N,1 stands for 8 data bit without parity.**

Tap ✓. to save the setting.

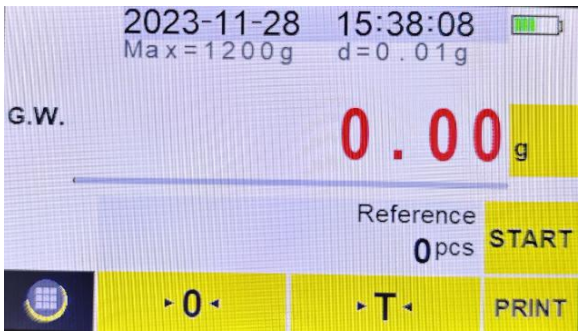
Tap < ,then tap ← return to weighing mode.

Application options

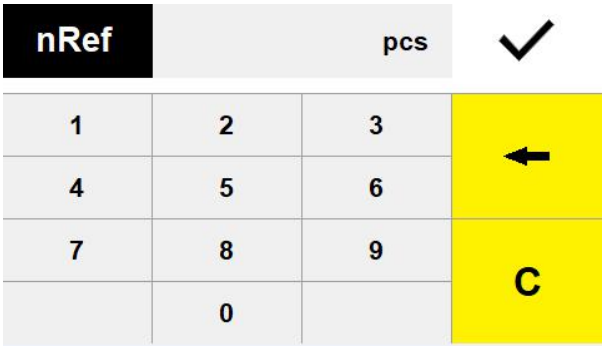
Counting function

1. Tap , the display will show

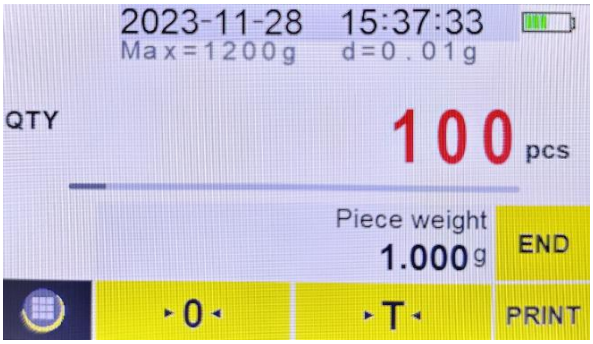
2. Tap Counting, the display will show



3. Place the container on the balance then tap T to tare. Tap Reference pcs, the display will show



4. Input sample reference number, then place accordingly number of items in the container, then tap ✓ and START , the display will show

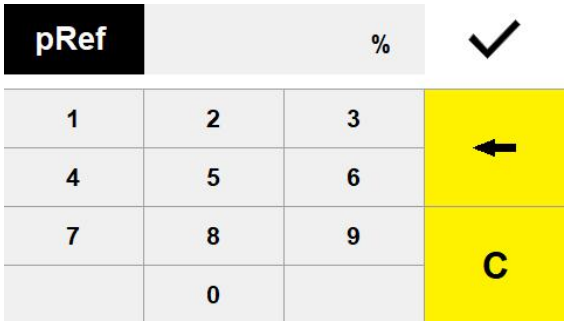


Place the items that you want counted on the platform. The total quantity of items will show on the display. Tap END to exit the counting function.

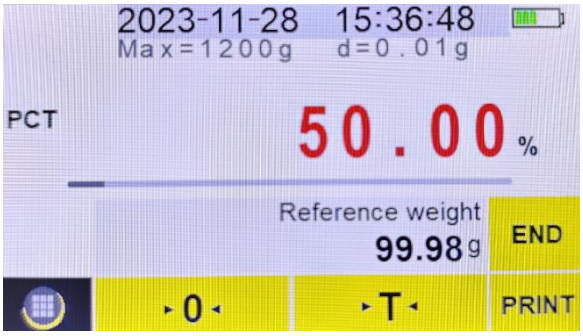
Percentage function

1. Tap **Percentage** , the display will show

2. Tap Reference % , the display will show



3. Input the percentage of reference sample, place sample on the container, then tap ✓ and **START,** the display will show



Place the weight of the item that needs to be calculated as a percentage, and the total percentage will show on the display. Tap **END** to exit the percentage function.

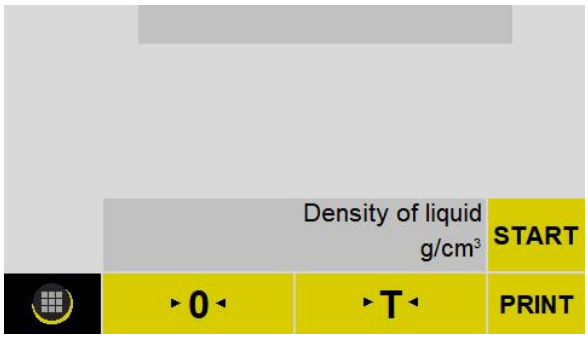
Density function

Important: The object whose density is to be measured must be solid.
Hollow will lead to inaccurate measurement data.

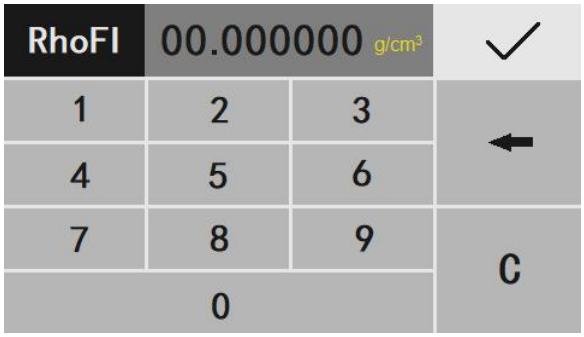
Full set of density kit is necessary to accomplish this function.

graph 1.1(density kit)

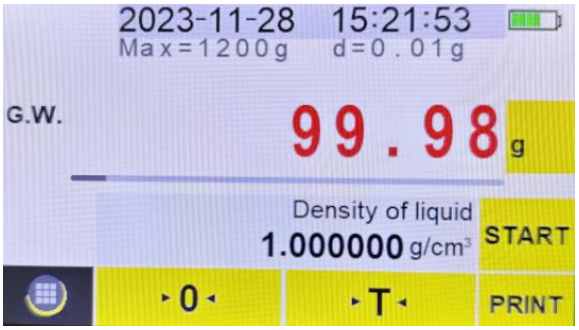
1. Tap Density , the display will show



2. Tap Density of liquid g/cm³ , the display will show



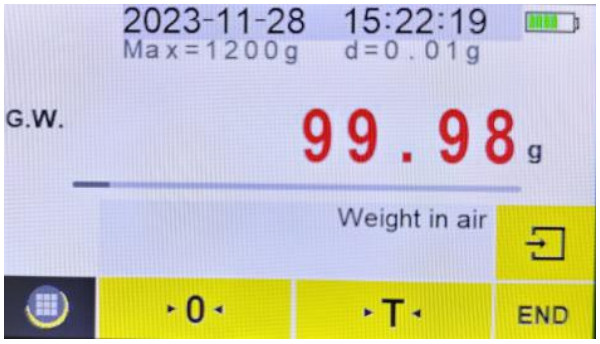
3. Input medium liquid density then tap ✓ . then tap START



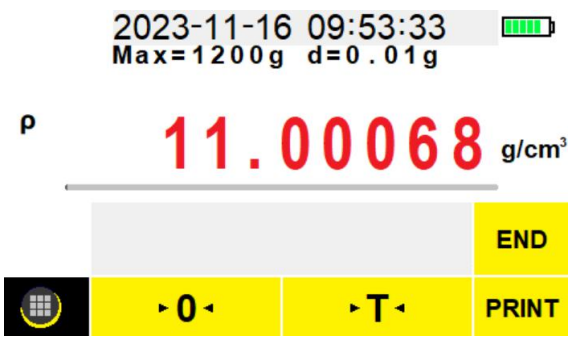
Water's density is 1g/cm³.

4. Place the object on the top round container of the density kit to weigh its weight in the air.

Tap to continue.



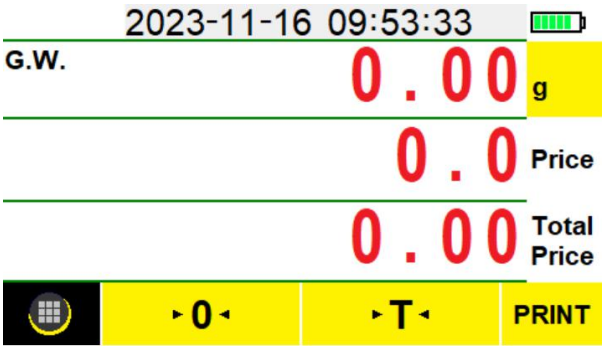
5. Immerse the object into the liquid: make sure Object is 100% immersed. Then tap ,display shows the density of this object.



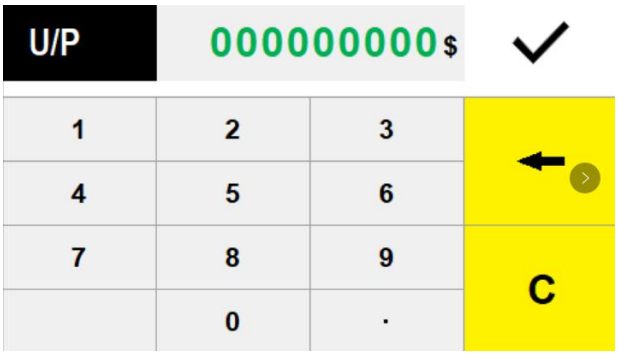
Pricing computing function

1. Tap , the display will show

2. Tap Pricing, the display will show



3. Tap on the Price number, the display will show



Tap the number keys to input the unit price, tap ✓ to save the setting.
The total price will be automatically calculated based on the weight of the item.

CALIBRATION

Before calibration

- Electronic scales have been calibrated during factory production. Calibration requires the use of large capacity standard weights. Therefore, we do not recommend users to calibrate themselves. Self-calibration may result in inaccurate readings.

- Make sure the electronic scale has sufficient power. Low voltage may cause inaccurate weighing of the electronic scale. Please plug in AC power to test the accuracy of the electronic scale before deciding whether calibration is needed.

- Please place the electronic scale on a table or ground as level as possible, and ensure that the surrounding environment will not affect the calibration (including but not limited to strong wind, static interference, excessive moisture, strong electromagnetic interference, etc).

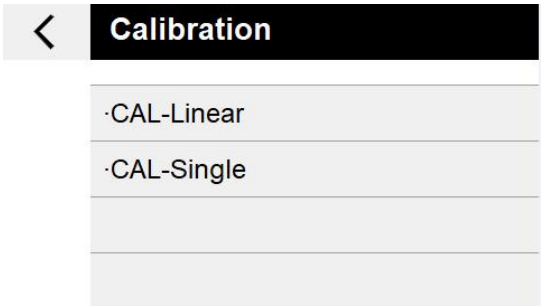
Calibration process

1. Turn on the switch at the bottom right of the scale, the display will show:

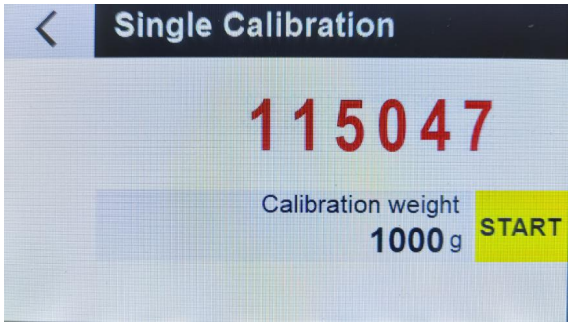
2. Tap ✓, the display will show

3. Tap , the display will show

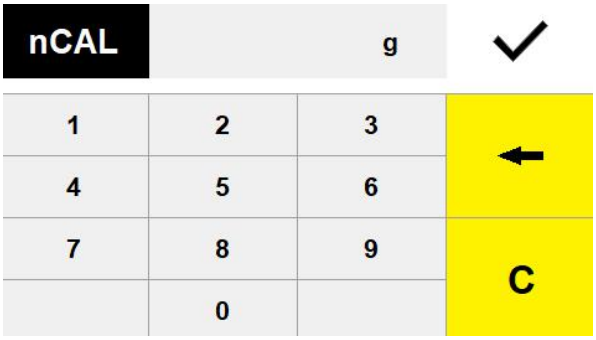
4. Tap CAL, the display will show



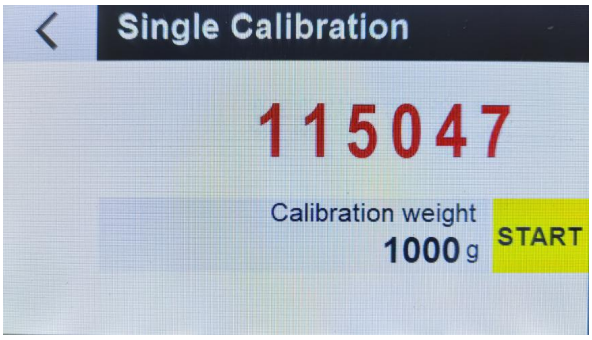
5. Tap CAL-Single, the display will show



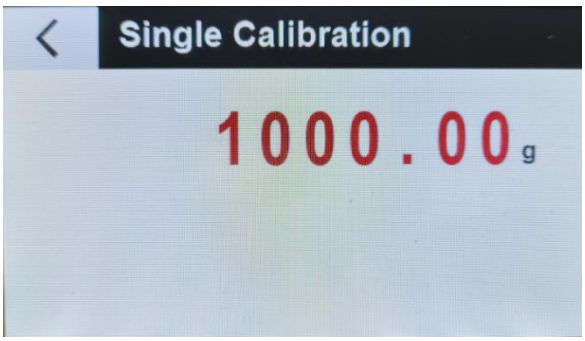
6. Tap Calibration weight , then tap numbers key input digit (Example 1000g). The calibration weight can be set according to users' requirements, we recommend a minimum weight of at least 50% of the balance capacity.



7. Tap ✓ , the display will show



8. Tap START key, the display will show the flashing calibration weight.



9. Put the weights prepared in advance, the electronic scale will automatically return to the weighing mode and display the current weight value of the weight. The calibration process ends.

10. Turn off the scale and remove the weights. Then turn on the electronic scale again and put a weight or object of known weight to test whether the electronic scale is accurate. If it is not accurate, please repeat the above calibration process.

If the electronic scale is still inaccurate after multiple calibrations, please check and make sure

1. The battery power supply is not in a low voltage state.
2. The electronic scale is on a level platform or level ground.

If the above does not solve the problem, please contact after-sales service.

Specifications

Model number	Capacity	Division
FPH-T-300	300g	0.01g
FPH-T-600	600g	0.01g
FPH-T-1000	1000g	0.01g
FPH-T-1200	1200g	0.01g
Unit	g,oz,lb,dwt,ozt,ct,tl.T,tl.H,tl.J,GN,dr,MM,tola,gsm,T/A/R,T/M/R	
Platter	135 x 120mm	
Net/gross weight	4100g/5400g	
Package	445×300×480(mm^3)	
Operating Temperature	0-40℃(32-104℉)	
Power source	Rechargeable battery or AC/DC 100-240V power adaptor	