

Digital Weighing Scale

— OPERATION MANUAL —

please read the manual carefully before using

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I. Notes

- 1.) Do not get the scale wet. If the scale gets wet, please wipe it with a dry cloth. If water damage occurs, this will void your warranty.
- 2.) Do not drop or shock the scale. Do not drop any item (s) onto the tray. This may cause permanent damage. Operate the scale gently and gently place items onto the weighing tray. Overloading the scale will cause damage to the weighing sensor.
- 3.) Extreme temperatures (hot and cold), humidity, shocks and vibrations should be avoided at all times.
- 4.) If the scale will not be used for a long time, please remove or unplug the power source. Clean the scale and store in a non-static polybag. A desiccant is suggested to be included.
- 5.) Matter charged with static electricity can affect accuracy. Discharge all static electricity. For example, one method is to use Static-Guard spray. Please spray on both sides of the weighing platform.

II. General Information**i. Summary**

The series scales are very accurate scales, which is with microprocessor, high precision A/D converter, tare system, digital display, reading stability indication and utilized capacity indication, etc. The scales process the weight very quickly and will provide you with a very speedy weighing experience, which can be widely used in the field of hardware, electronics, plastic, chemical, retail, food, pharmaceuticals, education, etc.

ii. Parameter

A/D: 24 digital A/D converter

Division: 15000~60000

Class: III

Temperature drift at zero: $\leq 0.15\mu\text{v}/\text{°C}$

Temperature drift at sensitivity: 12PPM/°C

Nonlinear: $\leq 0.01\%\text{F.S}$

Power: AC110V $\pm 10\%$ ~50Hz

DC6V/1.2Ah rechargeable battery

Temperature: 0°C~40°C

Humidity: $\leq 85\%\text{RH}$

iii. Function Summary

1. Auto troubleshooting guide function
2. Power-saved function
3. Check weighing function
4. Anti-shock function
5. Weighing units choice function
6. Battery auto protection function
7. Zero tracking & over-load function
8. Charge quantity indication function
9. Anti-interference, data-saved & recover factory function
10. RS232C interface (option); Relay Controller (option) & RTC perpetual calendar (option)

iv. Display



■ Negative sign	◀▶ Advanced function setting indication	
→0← at zero indicator	→T← Tare indication	$\frac{\text{GROSS}}{\text{▲}}$ Stability indication
PCS Counting mode	• decimal point	▼ indicator
HI OK LO check weighing indicator	🔋 battery indicator	

weighing units: kg, g, lb, oz, ozt

v. Keypad function

ON/OFF: Switch on or off

PRINT: Print function

TARE: Zero and tare

MODE: Enter into counting mode or check weighing function

UNIT: Weighing units choice function or press and hold 5s into calibration

III. Instructions for Use

i. Precautions Before use

- 1.) The scale must be used on a stable, flat, and vibration free by other electronic appliances.
- 3.) In order to bring the scale into a horizontal position, the adjustable feet can be turned either clockwise or counter-clockwise until the air bubble is in the center of the marked circle.
- 4.) Do not put any object on the scale before powering on.
- 5.) When possible, please allow the scale to warm up for about 15-20 minutes before operations.
- 6.) Items should always be placed on the center of the platform when being weighed.
- 7.) For maximum accuracy, please re-calibrate before each use.
- 8.) Please re-charge the battery when the low-battery symbol appears on the screen.

ii. Storage and shipping condition

Allowable storage humidity: $\leq 85\%RH$

temperature: $0^{\circ}C \sim 40^{\circ}C$ (fluctuations $\leq 1^{\circ}C/h$)

After unpacking the scale, please check it immediately for any visible damages as a result of rough handling during shipment.

iii. Getting Started

- 1) Please check whether the components listed below on the scale are in good condition:
 - ◆ Pan support
 - ◆ Weighing pan
- 2) Installation instructions
 - ◆ Leveling the scale using the leveling feet so that the air bubble is centered within the circle of the level indicator.

IV. Calibration

For maximum accuracy, calibration is required before use. Indicators your scale may need to be calibrated:

- ◆ Firstly use this scale.
- ◆ Weighing for a long time.
- ◆ The ambient condition changed.
- ◆ The temperature changed strongly.

- 1.) First remove all objects from weighing tray.
- 2.) Press UNIT key until the scale show "CAL", calibration will begin.
- 3.) The scale will show the required weight for calibration. Place the required weight as indicated on the screen on the center.
- 4.) When the scale is stable, then take off the weight. Calibration is complete.

V. Operations

i. Turning the scale On/Off

Press ON/OFF key to switch the scale On and Off.

ii. Zero and Tare Function

Press TARE key will deduct the container weight, press ZERO key to return the display to zero.

iii. Unit conversion

The models have units selection. You can select the weighing modes by pressing UNIT button and scrolling through the options.

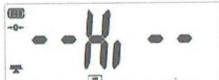
iv. Counting

Press MODE key the screen show "COU", place the item which needs to be counted and press PRINT key. The scale will show PCS in the screen, Press UNIT key to select 10, 20, 50, 100, 150, 200, 250 and 500. Press PRINT key to confirm to be in counting mode. In the counting mode press MODE key again into normal weighing mode.

v. Check weighing Function

1. Preset high & low limit values operation

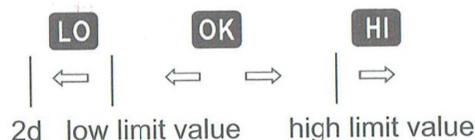
operation	display
Preset high & low limit values operation	
1) Press MODE key and the screen will show "COU", Press MODE key and the screen will show "PST".	

operation	display
2) Press PRINT key into preset high values operation.	
3) the screen display last high limit values, and the first digit flashes.	
4) Press TARE key to clear, press UNIT key to select 0~9, press MODE key to right shift. When completely set the last digit, press PRINT key to confirm, high limit values operation success.	
5) Preset low values operation.	
6) the screen display last low limit values.	
7) Press TARE key to clear, press UNIT key to select 0~9, press MODE key to right shift. When completely set the last digit, press PRINT key to confirm, high limit values operation success.	
8) Back to zero.	

2. Display high & low limit values operation

Please press MODE key and the screen will show "COU", then press MODE key twice and the screen will show "PST". Press PRINT key the screen will show "----Hi----", and then the screen will display high limit values. Press MODE key and the screen will show "----Lo----", and then the screen display low limit values. press MODE key to exit.

3. Indications and buzzer



If set-up menu select PASS-0, when the object is higher the low limit value and lower the high limit value, the buzzer will sound.

If set-up menu select PASS-1, when the object is lower the low limit value or the object is higher the high limit value, the buzzer will sound.

4. Clear the check weighing value

Please press MODE key and the screen will show "COU", press MODE key thrice and the screen will show "PST CE". Press PTINT key to confirm clear and exit.

VI. Troubleshooting Guide

Problems	Reasons	Ways to solve
When the screen appears "-----"	Overload	Calibration
When the screen appears "-----" or "-----"	Interference/overload	Power off/ Calibration
Unstable weights	1. Environment is not good.	Improve the environment
	2. There's something impacting the pan.	Remove the things
	3. Unfixed the measured objects	Fix the objects
Problems	Reasons	Ways to solve
Inconsistent/ inaccurate weights	1. The balance didn't calibrate.	Calibration
	2. Didn't tare before weighing.	Tare
	3. Low battery	Recharging

VII. power

Low battery

LCD series has the function of detecting the battery all the time. When  appears on the corner of the display, the battery needs recharging. If you don't charge in time, the power will be automatically cut off to protect the battery after using 2~3 minutes. Please immediately charge the battery.

As LED series, when the symbol "LO-BAT" appears and flashes on the screen, the battery needs recharging. If you don't charge in time, the power will be automatically cut off to protect the battery after

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using 1~2 minutes. Please immediately charge the battery.

Charging tips

In LCD series when battery status indication is "  " and hold on. It means the battery will be full after recharging 1~2 more hours (Usually, it takes about 8~10 hours to charge fully.).

LED series has the LED Charging tips. First red light appears. When charging up to 80%, the yellow light appears. When the green light appears, it means the battery will be full after recharging 1~2 more hours (Usually, it takes about 8~10 hours to charge fully.).

VIII. Warranty

The balance is warranted for one year from the date of purchase against defects in materials and/or workmanship. If the products fails to operate to specification during this period, when used under normal conditions, we will repair or replace it at our option, without charge. You must obtain a return goods authorization and pay the shipping charges to us. Adjustment or modification of any internal components, by other than a factory authorized technician, voids warranty coverage. Warranty does not apply to accident, misuse or foreign material penetrating unit housing.

 **WARNING:** This product can expose you to Titanium Dioxide, which is known to the State of California to cause cancer. For more information go to www.p65warnings.ca.gov.

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LIMITED WARRANTY

The products are warranted against defects in materials and workmanship from the date of delivery through the duration of the warranty period. During the warranty period, we will repair, or, at its option, replace any components(S) that proves to be defective at no charge, provided that the product is returned, freight prepaid, to us.

This warranty does not apply if the product has been damaged by accident or misuse, exposed to radioactive or corrosive materials, has foreign material penetrating to the inside of the product. In lieu of a properly returned warranty registration card, the warranty period shall begin on the date of shipment to the authorized dealer.

This warranty covers only weighing balance purchased from authorized channel and does not covers accessories like Battery, Adaptor, RS232 cable, Pan, Pan support etc.

As warranty legislation differs from state to state and country to country, please contact your local dealer for further details.

WARRANTY REGISTRATION

NAME :-

ADDRESS :-

TEL NO. :- MODEL NO. :-

SERIAL NO. :- PURCHASE DATE :-

WARRANTY PERIOD :-

BRANCH / DISTRIBUTOR / DEALER CONTACT DETAILS

STAMP / SIGN

Owners Signature / Date