



**Weighing balance and indicator instruction  
manual**

Version: V1.0

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## I. Precautions before using

**Please read this instruction manual carefully before you use this scale.**

1. Electronic scales are strictly forbidden to be placed in hot or humid places ( using environmental temperature: (0°C~40°C/32~104° F)
2. Do not allow cockroaches and small creatures to enter the machine and cause damage.
3. Do not hit or press (do not exceed its maximum weight capacity).
4. Remove the battery when it is not in use for a long time.
5. Please change the battery when it has aged in case of normal using.
6. The electronic scale is the measuring instrument of compulsory verification and should be checked regularly to ensure its accuracy.

## II . Preparation before use

1. Please use the electronic scale on a stable, flat table; do not place it on a rocking or vibrating gantry. Use four adjustment feet to keep the machine steady, and note that the bubble of the level needs to be in the center of the circle.
2. Avoid using the electronic scale in places where the

temperature changes too much or the air flow is severe, such as direct sunlight and the air outlet of the air conditioner.

3. Please use a separate power outlet to avoid interference from other appliances.
4. Do not put anything on the scale when you turn on the power.
5. Please supply power if the charge power is not enough to open it.

### III. Key Function and Indicator symbol description

#### 1. Key function description

 ~  : Numeric key for entering numeric values

 : Numeric key for entering numeric values

 : Zero the weight when emptying the scale

 : Remove the tare weight, ie deduct the

weight of the package

 : Confirm the weight value of a single element, upper limit value

 : Confirm the quantitative value of the sampling element, lower limit value.

 : Clear input value or single value, non-standard function.

 : Accumulate the value of the scale.

 : Conversion unit, manual transmission.

 : Cumulative print, next step.

 : Print, last step.

#### 2. Indicator symbol description

HI : Weight or member higher setting range

OK : Weight or member within setting range

LO : Weight or member lower setting range

PCS: Counting Model state

 : Members/weight cumulation

-  : Stable
-  : Remove the tare weight
-  : Zero the number
- tL : tl Unit
- OZ : ounce Unit
- lb : pound Unit
- kg : kilogram Unit
- g : gram Unit
-  : Supply power
-  : Low charge

#### IV. Function operation

##### 1. On and off

1.1. 1.1.On : Move the object on the scale plate, no object can be put on the scale plate, turn on the power switch, start to enter the self-check, after

the end of zero into the weighing state

1.2. Off: Press the power switch one more time.

##### 2. Zero Function

When it showing numbers when the scale didn't weighing anything, press  to make it zero. If the number is exceed Zero range(10% of Max capacity), it can't work by press 

##### 3. Cumulation

3.1. Weight cumulation : Put the object on the scale when it is showing zero and stable. Press  and wait it to show "Add xx" within 2 seconds, if you want to keep weighing, you have to take the object off and wait it shows zero, then put the object on the scale and

wait it stable, then press  if you want to weigh more.

3.2. Cumulative indications: in the state of weighing zero, long press , the single window display the accumulated number of bills, Press  to return to the weighing state.

3.3. In the cumulative display state, press  the key, display the "nuLL" 2 s, return to weighing state, the cumulative data is cleared.

#### 4. Upper and lower limit setting

4.1. Lower limit value setting: in the state of returning to zero, press the  key longer than 3s, enter the lower limit value set, the weight window shows "dn" and " 0.0" flickering back and forth, press the number

key to enter the lower limit value you want to set, press the  key to determine.

4.2. Upper limit value setting: in the state of returning to zero, press the  key more than 3s, enter the lower limit value setting, display "UP" and "0.0" back and forth, press the number key to enter the lower limit value you want to set, press the  key to determine.

4.3. Setting the value rapidly: put the object on ,then long press  or  more than 3 seconds, Take the weight of the object as the upper or lower limit.

#### 4.4. Built-in alarm function

1>If the lower limit is 0 and the upper limit is not 0, it represents: when the weighing data is greater than the upper limit value, an alarm is issued.

2>If only the lower limit value is not 0, the upper limit value is 0, which means: When the weighing data is less than the lower limit value, it will alarm.

3>If only the lower limit value is not 0, the upper limit value is not 0, and the lower limit value is less than the upper limit value, which means: when the weighing data is less than the lower limit value, or greater than the upper limit value, the alarm is issued.

4>If only the lower limit value is not 0, the upper limit value is not 0, and the lower limit value is greater than the upper limit value, which means: when the weighing data is greater than the lower limit value, or less than the upper limit value, the alarm is issued.

## 5. Counting operation

5.1. Single weight setting: in the weighing mode, press the  key to enter the single weight value.

5.2. Sampling operation: first press the number keys to enter the number of the number of good numbers, and then put a number of objects (the number must be greater than 5), on the weighing plate, wait for the data stabilization icon to appear, press the  button to display the number of the value.

## 6. Pre-peeling operation

 the weighing state, press the numeric key to enter the value to be peeled, and then click to show the value of peeling.

## 7. Unit selection

Long press the  key, select the unit of measure required, and the corresponding indicator appears such as: kg、g、lb、oz、t|

## 8. Charging instruction

When the battery is low, the battery under voltage symbol “” indicator appears, turns off the scale and charges the scale for 12 hours before use. When charging, the charging indicator will show “red”, when it is full, it will display “green” and continue charging for 3-4 hours to ensure sufficient battery power.

## V.Parameter setting

Hold down the  key and turn on again: “P01 XX”

Press the  key, or  key, to switch back and forth as follows

“P01 XX” is backlight or light setting

00: represents automatic backlight, or automatically adjusts brightness

01: represents the backlight always bright, or the brightness is high.

02: means that the backlight is always off, or that the brightness is low

“P02 xx” filter setup

00, 01, 02....09 the greater the number, the more stable the data

“P03 xx” anti-vibration coefficient setting

00, 01, 02....09 the greater the value, the more stable the data

“P04xx” boot unit setup , The default boot unit is pounds.

00: represents kg      02: represents lb

01: represents g      03: represents oz

“P05 xx” zero point tracking setting

00: 0d

01: 1d

02: 2d

03: 3d

04: 4d

05: 5d

06: 6d

07: 7d  
08: 8d  
09: 9d  
"P06 xx" tri-color lamp alarm mode selection  
00 represents an unstable alarm of the internal buzzer,  
01 represents the alarm after the internal buzzer data is stable,  
02 represents that the external buzzer data is unstable and alarms,  
03 represents the alarm after the external buzzer data is stable.  
"P07 xx" serial communication switch  
00: serial communication switch off  
01: serial communication switch on  
"P08 xx" baud rate setting  
00: the baud rate is 1200  
01: the baud rate is 2400  
02: the baud rate is 4800  
03: the baud rate is 9600  
04: the baud rate is 19200  
"P09 xx" serial communication transmission mode  
00: represents continuous transmission  
01: Stable transmission mode 1, must be

zeroed after the data is stable and sent, zero is not sent  
02: stable transmission mode 2, the data is stable and sent  
03: represents keystroke sending, press the "keystroke send" key to send  
"P10 xx" serial communication data format  
00: Giant forest format  
01: Cody format  
02: Xiangping format  
03: Excel format  
04: Yaohua A7 format  
05: Yaohua A1+format  
06: Yaohua A27 format  
07: Jadever weighting format  
"P11 xx" animal weighing function  
00: represents animal weighing function switch off  
01: represents animal weighing function switch on  
"P12 xx" weight, or quantity alarm settings  
00: represents weight alarm  
01: represents quantity alarm  
"P13 xx" weight, or quantity cumulative setting

00: represents weight cumulation

01: represents quantity cumulation

"P 14 XX" directly displays "XXXXXX", the value of the inner code.

"P15 XX" automatic average function setting

00: automatic average closing

01: automatic average opening

"P16 XX" weight memory function setting

00: Weight memory function shut down

01: Weight memory function turned on

"P17XX" AB selects the three-color lamp display mode and selects the value of the initial alarm.

A represents: three-color lamp display mode

0 represents that three color lamp doesn't alarm

1 represents the lower limit alarm mode

2 represents the upper limit alarm mode

3 represents interval alarm mode

B represents: initial alarm data

0 represents 0d starts alarm

1 represents 5d starts alarm

2 represents 10d starts alarm

3 represents 15d starts alarm

4 represents 20d starts alarm

5 represents 25d starts alarm

6 represents 30d starts alarm

7 represents 35d starts alarm

8 represents 40d starts alarm

9 represents 45d starts alarm

P18 display switch settings

00: weighing liquid crystal

01: weighting scarlet letter

02: counting liquid crystal

"P19" single memory function setting

00: single memory function shut down

01: Single memory function turned on

## **VI: simple external correction**

Long press  key to turn on more than 3S:

Display "0" flashing, this is the zero point correction, the electronic scale will automatically correct the zero point. After the zero point calibration is completed, it will automatically jump to the 1/3 range value flash.

At this time, you can press the number keys to set the value to be corrected. After changing the value, Put the weight of the corresponding value, wait for the steady light to light, press the  button, it is said to start automatic correction. After the calibration is completed, it will return to the weighing state and the calibration is completed.

## VII. Range setting and internal correction operation

Long press the  key, then boot, Display “CAL X”

Press the number key to switch the correction mode.

1: Represents one point correction

3: Represents three points correction

Press  key to switch the next

Display "SP X";

Press the number key to switch the unit

0: Represents that the measuring unit is kg

1: Represents that the measurement unit is g

Press the  key to switch the next

Display “FXXXXXX” ,

XXXXXX: represents the value of the range (for example, 00015).

Press the  key to switch the next

Display “div X”

1: the representative scale value is 1 jump

2: The representative scale value is 2 jump

5: The representative scale value is 5 jump

Press the  key to switch the next

Display shows“X.XXXX”

0: The representation is in range as unit and the data has zero decimal points

0.0: The representation is in range as unit and the data has a decimal point

0.00: The representation is in range as unit and the data has two decimal points

0.000: The representation is in range as unit and the data has three decimal point

0.0000: The representation is in range as unit and the data has four decimal points

0.00000: The representation is in range as unit and the data has five decimal points

Press the  key to switch the next

Display shows“5-4-3-2-1-0”then into correction.

1. If it is a point correction, you can press the number keys to set the value to be corrected. After changing the value, put it on the corresponding to the value of the weight, wait for the steady light to be on, press  , it is said to start automatic correction. When the correction is completed, the electronic scale will return to the weighing state and the one point correction is completed.

2. If it is a three-point correction, it will jump to the value of the one third range and put the weight of the corresponding value, wait for the steady light to illuminate and press the  button to automatically correct this value.

Then jump to the value of the two-thirds range, put the weight of the corresponding value, wait for the steady light to light up, press the  key, then the electronic scale will automatically correct this value.

Then jump to the full range value, put the weight of the corresponding value, wait for the steady light to light up, press the  key, then the electronic scale will automatically correct this value.

After the calibration is completed, it will automatically return to the weighing state.

**⚠** When measuring range is set, the maximum measuring range set by the scale shall not be greater than the maximum weighing value of the sensor, otherwise the load cell will be damaged.

## VIII. Fault Repair

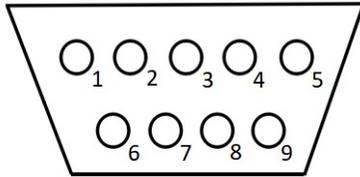
For simple problems please refer to the instructions in This section and check the scale. If the problems cannot be solved, please contact the manufacturer.

Image	Problem	Solution
Can't on	Battery damage	Check the battery
Weighing value unstable	Scale feet unstable	Check and adjust the feet to keep steady
	Weighing objects shaking	Keep objects stable
The reading error is too large	Scale need to do calibration	Calibration
	Unit error	Change to correct Unit
Unable to charge	Power cord not plugged in place	Check whether the power plug is inserted in place
	Poor power line	Change power line
Can't weighing	Scale need to do Calibration	Calibration

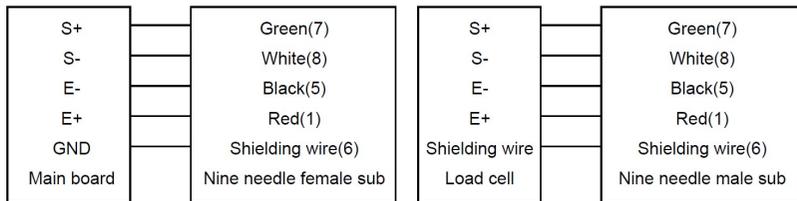
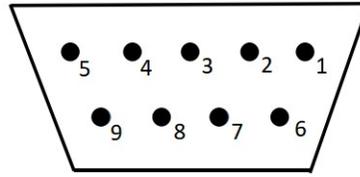
## IX、 Sensor connection

### 1. Nine-pin connection method

Wiring diagram of nine-needle master seat



wiring diagram of nine-pin male seat



### 2. Air head connection

Aerial header sequence:

- 1 ————— Ground wire
- 2 ————— Red E+
- 3 ————— Black E-
- 4 ————— White S-
- 5 ————— Green S+