

# EB8204 Bluetooth Body Fat Scale Instruction Manual

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## 1、Main function

Communication: Through Bluetooth.

Communication Protocol: Body Fat Scale Cloud Protocol.

Lipid measurement: Bia Analysis.

SUPPORT APP: core OKOK international version, domestic version.

System Support: Android 4.3, ios 7.0 + .

Bluetooth Support: Bluetooth 4.0 + .

Connection tip: LCD Screen Flashing Display “Bluetooth Logo” connection, the connection successfully shows Bluetooth logo.

## 2、Main performance indicators

### 2.1 BOOT mode

Start up the scale, the boot weight is 5.0kg 0.5kg.

Press the unit key to boot.

### 2.2 Unit and display

Three KG/LB/ST units are supported, with a default of KG.

### 2.3 Scale

0.1kg/0.2LB/ST:1LB。

### 2.4 Weighing range

1.0kg~183.0kg。

### 2.5 Voltage range

EB8204: 2.4V-3.0V。

### 2.6 Operating Current

The operating current (18mA at 3.0 v) and the average standby current  $\leq 10\mu\text{A}$  (actual minimum 5.2UA) .

### 2.7 Calibration

The three-point calibration is 50kg, 100kg and 150kg respectively.

### 2.8 Overload indication

When the weight is greater than 183.0 kg, the LCD will display “Err” , indicating the user’s current weight overload (not calibrated, no overload function) .

### 2.9 Automatic shutdown time

 BOOT BACK TO ZERO: 10 seconds;

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- ✚ After Weight Lock: 10 Seconds;
  - ✚ UNSTABLE SHUTDOWN: 15 seconds;
  - ✚ Weight Hold: 10 seconds.

## 2.10 Return to zero

- ✚ Power-on full display after automatic return to zero (no range limit) ;
- ✚ Weighing status, the detection of weight  $\leq 3\text{kg}$ , 1.0 kg and stable flicker 3 times after the display “C” 2 seconds to zero;;
- ✚ Standby status, regular chase zero every 4 hours for a return to zero processing:

Timing catch zero conditions: With the same boot low-frequency AD acquisition, weight range in  $\pm 0.5\text{ kg}$ , beyond the non-return to zero, AD to stability.

Timing Zero Requirements: Can Not turn on Bluetooth, can not turn on display, can not turn on backlight, in the chase zero period, press the unit key can be normal boot, in 3 seconds if unconditional return to zero, enter the low-power shutdown state, starting from now on, the next 4 hours are timed by repeating the cycle. Each cycle is timed from automatic shutdown to boot.

## 2.11 Temperature and humidity characteristics

Operating temperature:  $0^{\circ}\text{C} \sim 40^{\circ}\text{C}$ .

Relative humidity:  $\leq 90\%$  .

## 2.12 Back Light

White backlight with black lettering on blue background.

## 3. Power supply

EB8204: 3.0 v Battery Powered (2 \* Aaa Battery) .

## 4. weighing step

4.1 Power on, please put the scale on the level of hard plane for zero, zero time about 3 seconds, zero can be completed after the weighing, if the power has been unstable, LCD display.

4.2 In standby or on-line state, people can directly stand on the scale for weighing.

4.3 When the weight value is more than 3.0 kg and stabilized, the weight value flickers 3 times, and shows the stable weight all the time. If the weight is less than 3 kg, then zero treatment, and less than 3 kg and more than 1 kg, then zero treatment, then show: “C” shows zero in 2 seconds. However, when the weight is zero, the weight is negative need to chase zero processing (the greater the negative value is expressed as a smaller) display chase zero should not be prompted.

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## Notes:

After zero, when the weight is locked under the scale to lift the scale, at this time for negative weight, you can chase zero processing, but can not unlock the locked weight, put down the scale can not unlock the lock. Only when weighing the weight to determine the stability will track zero tips, such as: On the scale to lock the weight, found on the next scale & Lt; 3.0 kg or found that the weight of the Negative Show Zero Weight; direct Weighing & Lt; 3.0kg •1.0kg • weight locked after zero-tracking • FLASH AFTER TREATMENT: “C” .

When displayed as 0 Weight, lift the Scale & Lt; 3.0k (including negative weight) shows can chase zero, chase zero directly after the show zero weight, do not display: “C” .

4.4 Weight stability, the cumulative weight of more than 5kg re-weighing, unlock the weight of the lock.

4.5 BOOT more than 10s without on-scale action or weight stability more than 10s without under-scale action, into standby mode.

4.6 When the weighing value overload, LCD display “Err” , after the weighing value back to the normal range, LCD display normal weighing value.

4.7 The memory range above 10kg is 0.3 kg (more than 0.3 kg updated display) , no memory power.

4.8 Display “C” status: Weight & Lt; 3kg, \$1kg, display “C” after zero.

## 5. Calibration procedure

### 5.1 Access calibration method:

5.1.1 First calibration, weighing the state, placed 100kg weight on the scale after the stable into the calibration;

5.1.2 Non-first calibration, power-on (that is, the first battery installed) , weighing state, put more than 100 kg weight onto the scale plate, stable and then placed 50 kg, into the calibration;.

5.1.3 Press the unit key is “Three short one long” into the calibration;

5.1.4 Short-connect calibration jumper into the calibration (PCB need to do a pair of pads, for tweezers touch) ;

5.2 Lift all the weights on the scale, the weight back to zero and stable 0.75 seconds, LCD display “50.0kg” ;

5.3 Put 50kg weight onto the scale plate, to weight stability 0.75 seconds, LCD display “100.0kg” ;

5.4 Then put 50kg weight onto the scale, to weight stability 0.75 seconds, LCD display “150.0kg” ;

5.5 Then put 50kg weight onto the scale plate, until the weight stable 0.75 seconds, save calibration parameters, LCD display “PASS” 2 seconds, calibration completed, the human scale directly into the shutdown state. Note: Manual access to the calibration display code need to press the unit key once, to enter the next step.

Press the unit key to turn off when displaying the flicker of weight.

5.6 During the calibration process, each calibration error is described as follows:

- ✚ After 150kg calibration, if the recording error occurs, the LCD display “—”, 10 seconds into standby;
- ✚ After 150kg calibration, if the calibration times exceed (maximum 100 times) , then LCD display “FULL”, 10 seconds into standby;
- ✚ After 150kg calibration, if the recording time-out occurs, then LCD display “UOL”, 10 seconds into standby.

## 6. Show up

6.1 Weighing and calibration are shown in the table below:

Power on display	“8888”	NORMAL: Zero in 3 seconds
Overweight shows	“Err”	DISPLAY: Shutdown in 10 seconds
Low-pressure display	“Lo”	DISPLAY: POWER OFF IN 3 seconds
Clear the zero prompt	“ C”	DISPLAY: POWER OFF IN 2 seconds
Burn error displayed	“----”	DISPLAY: Shutdown in 10 seconds
Maximum number of calibration	“FULL”	DISPLAY: Shutdown in 10 seconds
Burn Timeout	“UoL”	DISPLAY: Shutdown in 10 seconds
Calibration is correct	“PASS”	DISPLAY: POWER OFF IN 2 seconds

RECORD MODIFICATION:

Version number	Revision date	Modifiers	Record modification
REV:01	2018.06.09	Guo Zhijin	1、The initial version.

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FCC warning:

1. This device should be installed and operated with minimum distance 5mm between the radiator&your body.
2. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
  - (1) This device may not cause harmful interference, and
  - (2) This device must accept any interference received, including interference that may cause undesired operation.
3. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
4. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
  - Reorient or relocate the receiving antenna.
  - Increase the separation between the equipment and receiver.
  - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  - Consult the dealer or an experienced radio/TV technician for help.