

User manual

product identification:

CW609BLE+WiFi: WiFi Bluetooth connection fat scale

Description:

1, General Description:

This product adopts 3-colour LED light display and with high-precision sensor to measure the weight, with automatic weighing up weighing function, capable of measuring human body weight and body fat percentage. Unique toughened glass scale surface design makes the product safe and non-slip, beautiful and generous, suitable for family to measure human body weight.

2、Structure (appearance, warranty) description:

Part Name	material	colour	surface treatment	note
base shell	ABS	white	etching	
outer shell	ABS	white	etching	
gland	ABS	white	burnish	
indicator light	PMMA	open (non-secretive)	etching	
sump	Aluminium ADC12	silvery	Surface oiling	
foot support	aluminiumAD C12	primary colour	passivation	
nylon	8mm toughened glass	black、white	silkscreen	
electrode	304 stainless	metallic	Fine	

sheet	steel		sandblasted surface	
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- (1) Overall size: 500*350*16.5mm
(2) Tempered glass size:
(3) Sensor: back type sensor
(4) Net weight of scale: 5.3kg
(5) Packaging: see packaging drawings
(6) LED effect: 3-colour LED light display

2. Working conditions:

- (1) Operating temperature range: 0-40 ° C
(2) Operating humidity range: ≤90%RH
(3) Storage temperature: -20° C-50° C

2、Technical Parameters\Related Functional Description:

serial num ber	Testing items	Description	备注
1.	Rated range	180kg /392.62 lb	
2.	indexing value	0.05kg/0.1lb	
3.	Maximum weighing weight	182kg	
4.	Weighing range	6-180kg	
5.	Start-up weight	≥6kg	
6.	Automatic zero weight grabbing	Scale weight +3kg	
7.	Weight Confirmation	The beeper will beep once and the green light will always be on;	
8.	Start-up mode	Pressing the button to switch on when the power is off	
9.	unit conversion	APP switching unit lb	
10.	Touch Key Function Definition	3. 1, the default factory to the hands of the customer power failure shutdown state, press the button or charging can activate the scale boot	

		(boot buzzer sounded) 4. 2. After the scale is switched on normally, press the button 3 times, with an interval of not more than 1 second, and then switch off the scale with a long beep. 5. 3. When the scale is switched on, press and hold the button for 5 seconds, the buzzer will sound and the blue light will be on to restore the scale to the factory and clear the network and historical data.	
11.	Restore Factory Settings Display	Blue light is always on (un-networked state)	
12.	Power-Up Default Units	kg	
13.	Three-point calibration	50kg/100kg/150kg	
14.	Rated Working Voltage	DC3.7V (充满 4.2V)	
15.	Low Power Detection Voltage Point	3.5V±0.2V	
16.	Low battery display	Yellow light on for 3S: the battery is below 20%. Yellow light blinks 3S: battery level below 5%; (unable to weigh and upload data)	
17.	Low battery auto shutdown	Yellow light flashing: low battery status, power off after 3S yellow light flashing;	
18.	Charging display	Yellow light flashes slowly: charging in progress; yellow light always on: charging complete; Green light is always on: the scale has not been correctly zeroed;	
19.	Auto Power Off Time	Hibernation: Immediately hibernate after weight lock upload \Hibernate after 3s of catching zero \	

		Weight unstable catch value 10s after sleep	
20.	Unstable weight	Hibernate after 60s	
20.	Switching off method	Long press button to switch on/off	
21.	Overload indication	The buzzer beeps for a long time until the overload condition is lifted, and the machine is switched off after 3s;	
22.	Precision Standard	6-180kg 6 ~ 90kg Indexing value 0.1kg Accuracy error $\pm$ 0.1kg $\geq$ 90kg Indexing value 0.2kg Accuracy error $\pm$ 0.3kg	
23.	beeper	Measurement process, weight lock - "beep";	
24.	temperature coefficient	F.S*2%/10℃	
25.	Memory value range	$\pm$ 200g	
26.	memory time	About 30S after switching off	
27.	Average operating current	$\leq$ 110mA (zero state, WiFi not on) $\leq$ 135mA (weight lock state, WiFi on) / TBD	
28.	Average standby current	$\leq$ 100uA (Low-speed broadcasts with screens out for 10min) 55uA (deep sleep mode) / TBD?	
29.	LED visible area size \ character height	RGB Tri-colour LEDs	
30.	Bluetooth Name	Smart Bath Mat G	
31.	Bluetooth version	Low Power Bluetooth 5.0	
32.	Bluetooth transmission distance	$\geq$ 10m without obstacles in the way	

33.	WiFi band	2400-2483.5MHz 或 5180-5825MHz (2.4G&5G)	
34.	WiFi transmission distance	≥ 100m without obstacles in the way	
35.	WiFi upload failure indication	Red light always on 3S, unable to upload data, need to check the network configuration or rewire the network	
36.	WiFi distribution network	Blue light flashes fast [500ms on 500ms off]	
37.	Wi-Fi network distribution failure is displayed	Red light always on 3S	
38.	OTA display method	Blue light blinking: OTA upgrade in progress, OTA complete automatically turn off the blue light ;	
39.	Bluetooth Test Demo	CW299_Pro New production test app [UH-Test]:	
40	WIFI test tool	The specific settings	
41	Restore Factory Settings	2. 1、Use mobile phone to send "restore factory", LED colour blue light. 3. 2. When the scale is switched on, press 3 short and 1 long key to restore the factory to clear the network and historical data, the LED colour is blue.	

Operating instructions

1. Connection instructions:

After the scale end is powered on, the blue light is always on to start broadcasting [broadcasting interval 100ms], it is easy for mobile APP to find the scale quickly, APP searches for the device and clicks on WiFi setup, enter into the matching operation [the device's blue light is blinking fast], wait for the WiFi list -> select WiFi -> enter

password -> click setup -> display the progress of the matching network -> the matching network is successful, the device's green light is always on to catch the zeros, and APP Jump to device page.

2. Weighing mode (only support weighing):

Greater than 6kg automatically switch on the machine to start weighing, on the scale, weighing. 3-5S within the stable, lock the buzzer "beep". Start wifi to upload the weight data to the cloud, switch off the machine after 3S successful uploading, before switching off the machine, you can repeat the weighing. If uploading fails, the red light is always on for 3S.

三、 Factory mode LED display status

Power on RGB red, green and blue lamps show 0.5S in turn. blue lamp is longer, including the time to catch zero

Empty scale: magenta light flashes slowly

Weighing: magenta light flashes fast

Lock: magenta light always on

Start wifi upload: green light blinks fast

Successful wifi upload: green light always on 3S

Failed wifi upload: red light always on for 3S

Charging: Yellow light flashes slowly

Low battery: yellow light flashes fast

3, not with the network state boot blue light on for two hours, after the shutdown. If you press the bottom button for more than 5 seconds before packing, the blue light will go out after letting go and switch off the machine.

(Off before packing)

Precautions

In use, please keep the scale on a level surface and hard place, do not make the scale work in the sudden change of temperature environment, the maximum weight of weighing should not exceed 150% of the rated range, so as not to damage the force measuring parts.

Calibration operation:

Calibration: the first calibration, press on the scale weight > 100kg, release the weights into the calibration

1. Red light is always on ['beep'], catch the calibration zero point, automatically catch zero after completion;
2. Blue light is always on ['beep'], add 50kg weight for 50kg calibration; when the weight is stable, it will jump automatically;
3. Green light is always on ['beep'], add 100kg weight for 100kg calibration; when the weight is stable, it will jump automatically;
4. Yellow light is always on ['beep'], add 150kg weight for 150kg calibration; when the weight stabilises and finishes, it jumps automatically;
5. Mixed-colour (white) light is on [loud 'beep'], calibration is completed (if red light is on [loud 'beep'], calibration fails).

Weight testing standards:

Accuracy (weights).

6 ~ 90Kg indexing value 0.1kg precision error $\pm 0.1\text{kg}$

$\geq 90\text{kg}$ indexing value 0.2kg precision error $\pm 0.3\text{kg}$

Bias load: 70kg weights placed on the left and right 1/4 of the weighing pan to measure the bias load, the maximum bias load $\pm 0.3\text{kg}$

static current test method:

The working voltage will be adjusted to 3.0V so that the weighing of the yellow light flashes 3S shutdown before testing the static current.

No broadcast after the shutdown, this time the static current $\leq 55\mu\text{A}$;

FCC regulatory conformance:

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.

(2) This device must accept any interference received, including interference that may cause

undesired operation.

NOTE: 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

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

RF Exposure

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

Under all normal operating conditions specified in the user manual, frequency stability can keep radiation within the operating frequency band.