



# Stand-on Floor Scale

USER MANUAL

**MS6111**

















Please keep the instruction manual at hand and follow instruction for use.

# CONTENTS

<b>I. Explanation of Graphic Symbols on Label/Packaging .....</b>	<b>3</b>
<b>II. Copyright Notice .....</b>	<b>5</b>
<b>III. Safety Notes .....</b>	<b>6</b>
A. General Information .....	6
B. EMC Guidance and Manufacturer's Declaration .....	10
<b>IV. Installation .....</b>	<b>13</b>
<b>V. Indicator .....</b>	<b>14</b>
A. Indicator and Key Functions .....	14
B. Display layout .....	14
<b>VI. Using Device .....</b>	<b>15</b>
A. Basic Operation .....	15
B. Tare .....	17
C. Body Mass Index (BMI) .....	17
<b>VII. Device Setup .....</b>	<b>19</b>
<b>VIII. Wireless Connection .....</b>	<b>20</b>
<b>IX. Troubleshooting .....</b>	<b>21</b>
<b>X. Product Specifications .....</b>	<b>23</b>
<b>XI. Declaration of Conformity .....</b>	<b>24</b>

# I. Explanation of Graphic Symbols on Label/Packaging

Text/Symbol	Meaning
	Caution. Failure to follow instructions may result in adverse events
	Separate collection for waste of electrical and electronic equipment, in accordance with Directive 2002/96/EC. Do not dispose of device with everyday waste
	Name and address of device manufacturer
	Carefully read user manual before installation and usage, and follow instructions for use.
	Medical electrical device, Type B applied part
	Medical electrical device, Type BF applied part
	Device catalogue number
	Name and address of authorized representative in the European Union (applicable for medical devices only)
	Device is a medical device. Text indicates device category type
	Manufacturer's batch or lot number for device
	Device's serial number
	Device's model number
	Device's Unique Device Identifier (01) GTIN (11) Production date (21) Serial number
	Value in mass units (verified models only). This is the difference between two consecutive display values, used to classify and verify a scale



Device conforms to (EU) 2017/745 Regulation on Medical Devices. Fourdigit number is identifier for medical device Notified Body



Device conforms to (EU) 2017/745 Regulation on Medical Devices. Four digit number is identifier for medical device Notified Body.



Device complies with EU directives  
**M**: Conformity label in compliance with Directive 2014/31/EU for non-automatic weighing instruments  
**17**: Year in which conformity verification was performed and the CE label was applied. (ex: 17=2017)  
**0122**: Identifier for metrology Notified Body



Device is a Class III scale in compliance with Directive 2014/31/EU



Name and address of entity importing device



Name and address of entity responsible for translating Information For Use



Event counter recording how many times protected-mode parameter adjustments relating to metrology-related characteristics (ex: gravity value) have been conducted for device



Device has received Taiwan NCC approval



Device conforms to U.S. Federal Communications Commission regulations



Device complies with all UK applicable product legislation



Device's polarity of power.

**In case of differences, icon on device itself takes precedence**

## II. Copyright Notice

### **Copyright Notice**

#### **Charder Electronic Co., Ltd.**

No.103, Guozhong Rd., Dali Dist., Taichung City 41262 Taiwan

Tel: +886-4-2406 3766

Fax: +886-4-2406 5612

Website: [www.chardermedical.com](http://www.chardermedical.com) E-mail: [info\\_cec@charder.com.tw](mailto:info_cec@charder.com.tw)

Copyright© Charder Electronic Co., Ltd. All rights reserved.

This user manual is protected by international copyright law. All content is licensed, and usage is subject to written authorization from Charder Electronic Co., Ltd. (hereinafter Charder) Charder is not liable for any damage caused by a failure to adhere to requirements stated in this manual. Charder reserves the right to correct misprints in the manual without prior notice, and modify the exterior of the device for quality purposes without customer consent.



Charder Electronic Co., Ltd.  
No. 103, Guozhong Rd., Dali Dist.,  
TaichungCity, 41262 Taiwan

## III. Safety Notes

### A. General Information

Thank you for choosing this Charder Medical device. It is designed to be easy and straightforward to operate, but if you encounter any problems not addressed in this manual, please contact your local Charder service partner.

Before beginning operation of the device, please read this user manual carefully, and keep it in a safe place for reference. It contains important instructions regarding installation, proper usage, and maintenance.

#### **Intended Purpose**

This medical device is designed to be used in accordance with national regulations, to measure weight within specifications, for weight-related usage by professionals.

#### **Clinical Benefit**

Measurement results can be used by professionals to diagnose (and monitor) weight-related issues.

#### **Intended medical indications/contraindications**

Measurement: patient's body weight. No known contraindications to measurement of body weight.

#### **Intended patient profile**

- (a) Age: no restrictions
- (b) Weight: no restrictions within device weight capacity
- (c) Patient Conditions: require measurement of body weight. Able to stand independently without support.

#### **Intended user profile**

- (a) At least 20 years old
- (b) Minimum knowledge:
  - To be able to read at a high-school level and understand Arabic numerals (e.g. 1, 2, 3, 4...)
  - Basic hygiene knowledge
  - Trained in device's operation
  - Read the instruction manual

- (c) Language
  - Able to read the language of instruction manual and on-screen instructions
- (d) Qualifications
  - No special certifications or qualifications required

### **Residual Risk Evaluation**

- (a) All foreseeable risks have been evaluated and considered acceptable. Generally speaking, the most likely risk caused by incorrect usage of the device is less accurate measurement (or inability to use device to acquire measurement), which does not pose imminent physical risk to patient or user.
- (b) Benefit-risk ratio is considered acceptable. Stand-on floor scales are an important option for measuring patients. Usage of device is unlikely to result in harm to user or patient.

### **General Handling**

- Device should be placed on stable, flat, solid, non-slippery surface.
- Usage on soft surfaces (ex: carpet) may result in inaccurate results.
- Ensure all parts are properly locked and tightened before operating the device.
- Device is intended to measure one subject at a time.

### **Safety Instructions**

Before putting device into use, please read this user manual carefully. It contains important instructions for installation, usage, and maintenance of device.

The manufacturer shall not be liable for damages caused by failure to heed the following instructions:

- Batteries should be kept away from children. If swallowed, promptly seek medical assistance.
- Expected service life: 5 years.
- Always comply with appropriate regulations when using electrical components under increased safety requirements.
- Improper installation will render the warranty null and void.
- Ensure voltage marked on power supply matches mains power supply.
- The device is intended for indoor use only.
- Observe permissible ambient temperatures for use
- Device meets requirements for electromagnetic compatibility. Do not exceed the maximum values specified in the applicable standards.

## **Environmental**

- All batteries contain toxic compounds; batteries should be disposed of via designated competent organizations. Batteries should not be incinerated.

## **Cleaning**

- Device surface should be cleaned using alcohol-based wipes. Corrosive cleansing liquids should not be used. Pressure-washers should not be used.
- Do not use large amounts of water when cleaning the device, as it may cause damage to the internal electronics.
- Always disconnect device from mains power before cleaning.

## **Maintenance**

- Please contact your local Charder distributor for regular maintenance and calibration, regular checking of accuracy is recommended; frequency to be determined by level of use and state of device.

## **Warranty/Liability**

- If Charder is responsible for a fault or defect present upon receipt of the unit, Charder shall either repair the fault, or supply a replacement unit. Should the repairs or replacement delivery fail, statutory provisions shall be valid. The period of warranty shall be two years, beginning on the date of purchase. Please retain your receipt as proof of purchase.
- No responsibility shall be accepted for damage caused through any of the following reasons: unsuitable or improper storage or use, incorrect installation or commissioning by the owner or third parties, natural wear and tear, changes or modifications, incorrect or negligent handling, chemical, electrochemical, or electrical interference, unless damage is attributable to negligence on the part of Charder.
- This device does not contain any user-maintained parts. All maintenance, technical inspections, and repairs should be conducted by an authorized Charder service partner, using original Charder accessories and spare parts. Charder is not liable for any damages arising from improper maintenance or usage. Dismantlement of the device will void the warranty.

## **Disposal**

- This product is not to be treated as regular household waste, but should be taken to a designated collection points for electronics. Further information should be provided by local waste disposal authorities.



## **Warning**

- Only the original adapter should be used with the device. Using an adapter other than the one provided by Charder may cause malfunction.
- Do not touch the power supply with wet hands.
- Do not crimp the power cable, and avoid sharp edges.
- Do not overload extension cables connected to the device.
- Route cables carefully, to avoid tripping.
- Keep device away from liquids.
- Do not remove the plug by yanking on the cable.
- Use only a correctly wired (100-240VAC) outlet, and do not use a multiple outlet extension cable.
- Do not under any circumstances dismantle or alter the device, as this could result in electric shock or injury as well as adversely affect the precision of measurements.
- Do not place the device in direct sunlight, or in close proximity to an intense heat source. Excessively high temperatures may damage the internal electronics.

## **Incident Reporting**

- Any serious incident that has occurred in relation to the device should be reported to the manufacturer, EU representative (if device is used in EU member state), and competent authority of user/subject's member state.

## B. EMC Guidance and Manufacturer's Declaration

<b>Guidance and manufacturer's declaration-electromagnetic emissions</b>		
The product is intended for use in the electromagnetic environment specified below. The customer or the user of the product should assure that it is used in such an environment.		
<b>Emission test</b>	<b>Compliance</b>	<b>Electromagnetic environment-guidance</b>
RF emissions CISPR 11	Group 1	The product uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class A	The product is suitable for use in all establishments other than domestic and those directly connected to a low voltage power supply network which supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations /flicker emissions IEC 61000-3-3	Compliance	

<b>Guidance and manufacturer's declaration-electromagnetic immunity</b>			
The product is intended for use in the electromagnetic environment specified below. The customer or the user of the product should assure that it is used in such an environment.			
<b>Immunity test</b>	<b>IEC 60601 test level</b>	<b>Compliance level</b>	<b>Electromagnetic environment-guidance</b>
Electrostatic discharge(ESD) IEC 61000-4-2	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%
Electrical fast transient/burst IEC 61000-4-4	±2kV for power supply lines	± 2kV for power supply lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	±1kV line(s) to line(s) ± 2kV line(s) to earth	± 1kV line(s) to line(s) ± 2kV line(s) to earth	Mains power quality should be that of a typical commercial or hospital environment.

Voltage Dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0% UT for 0,5 cycle 0% UT for 1 cycle  70% UT(30% dip in UT) for 25cycles  0% UT for 5 s	0% UT for 0,5 cycle 0% UT for 1 cycle  70% UT(30% dip in UT) for 25cycles  0% UT for 5 s	Mains power quality should be that of a typical commercial or hospital environment. If the user of the product requires continued operation during power mains interruptions, it is recommended that the product be powered from an uninterruptible power supply or a battery.
Power frequency(50, 60 Hz) magnetic field IEC 61000-4-8	30 A/m	30 A/m	The product power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
NOTE UT is the a.c. mains voltage prior to application of the test level.			

### Guidance and manufacturer's declaration-electromagnetic immunity

The product is intended for use in the electromagnetic environment specified below. The customer or the user of the product should assure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment-guidance
Conducted RF IEC 61000-4-6	3 Vrms 150 KHz to 80 MHz  6 V in ISM bands between 0,15 MHz and 80 MHz 80 % AM at 1 kHz	3 Vrms 150 KHz to 80 MHz  6 V in ISM bands between 0,15 MHz and 80 MHz 80 % AM at 1 kHz	Portable and mobile RF communications equipment should be used no closer to any part of the product including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.  Recommended separation distance: d = 1,2 √P 80MHz to 800 MHz d = 2,3 √P 800MHz to 2,7GHz Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in metres (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, a should be less than the compliance level in each frequency range. b Interference may occur in the vicinity of equipment marked with the following symbol:
Radiated RF IEC 61000-4-3	3 V/m 80MHz to 2,7 GHz	3 V/m 80MHz to 2,7 GHz	



NOTE1 At 80 MHz and 800 MHz, the higher frequency range applies.  
 NOTE2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the product is used exceeds the applicable RF compliance level above, the product should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the product.

Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3V/m.

**Recommended separation distance between portable and mobile RF communications equipment and the product**

The product is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the product can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the product as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter W	<b>Separation distance according to frequency of transmitter m</b>		
	<b>150 kHz to 80 MHz</b>	<b>80 MHz to 800 MHz</b>	<b>800 MHz to 2,7 GHz</b>
	$d = 1,2\sqrt{P}$	$d = 1,2\sqrt{P}$	$d = 2,3\sqrt{P}$
0,01	0,12	0,12	0,23
0,1	0,38	0,38	0,73
1	1,2	1,2	2,3
10	3,8	3,8	7,3
100	12	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance  $d$  in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where  $p$  is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

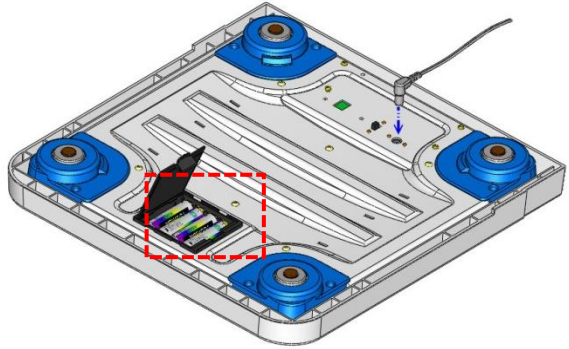
NOTE1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

## IV. Installation

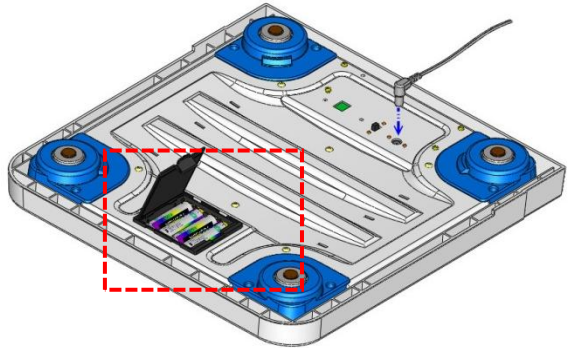
### A. Inserting Batteries

Insert 4 AA batteries into battery compartment



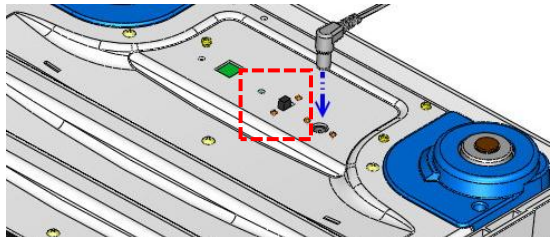
### B. Using Adapter

Ensure that adapter is connected to device before connecting to mains power supply, and to disconnect adapter from mains power supply before unplugging from device.



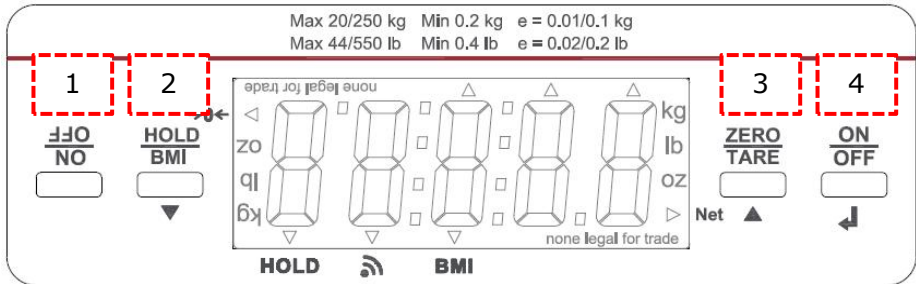
### C. Setting Unit

Switch between metric/imperial using switch on bottom of device



# V. Indicator

## A. Indicator and Key Functions



### Key Function

1. **ON/OFF** (patient facing): Turn on device. Results will face patient.
2. **HOLD/BMI**: Press once to de-activate Hold. Press and hold for 3 seconds to enter Body Mass Index (BMI) mode.
3. **ZERO/TARE**: Press to Zero or Tare weight. Press and hold for 3 seconds to enter device settings.
4. **ON/OFF** (operator facing): Turn on device. Results will face operator. Use as "Enter" key after inputting height for BMI function.

## B. Display layout

1. : Weight is stable
2. : Weight is negative
3. : Device is at zero
4. : Wireless transmission (if applicable)
5. HOLD: Hold function is active
6. BMI: BMI function is active
7. Net: Current result is net weight

# VI. Using Device

## A. Basic Operation

### 1. Turning on device (tap-on)

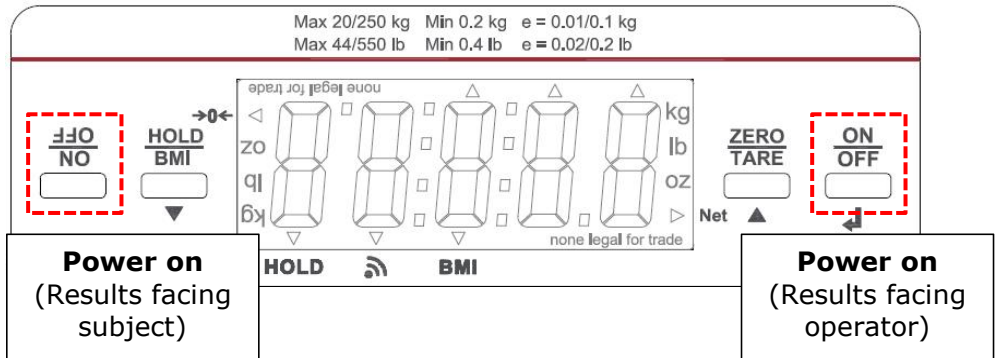
Device is equipped with tap-on function. To turn on device, simply step onto the platform briefly before stepping off. Device will auto-calibrate before displaying software version, and "0.00" will appear on indicator once device is ready.

NOTE: when turned on using tap-on, results on LCD will face subject

### 2. Turning on device (results facing operator)

If results on LCD need to face operator rather than subject, press the ON/OFF key facing operator.

(pressing ON/OFF key facing subject will cause results on LCD to face subject)



To turn off device, press and hold either **[ON/OFF]** key for 3 seconds.

Device will auto-calibrate before displaying software version, and "0.00" will appear on indicator once device is ready.

**NOTE:** If "0.00" does not display on indicator, press **[ZERO/TARE]** key to zero the device. This function can be used for weight within  $\pm 2\%$  of full capacity.

### 3. Measurement

Device is equipped with automatic hold (weight lock) function. After subject stands onto platform, weight will automatically hold.

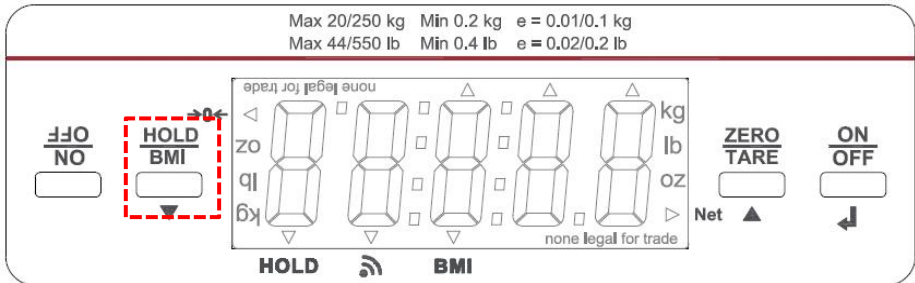
Weight measurement result will remain displayed on LCD screen even if subject steps off from device.

If another subject steps onto the platform, device will automatically determine that a different subject is being measured, and will release weight lock to display and lock weight of new subject.

**NOTE:** If subject's weight exceeds maximum weight capacity (including tare), indicator will display "Err" due to overload.

**NOTE:** Hold function will not operate for weights under 2 kg

Press **[HOLD]** key to de-activate hold function if needed. When hold function is de-activated, display will return to 0.00 once subject steps off from device.



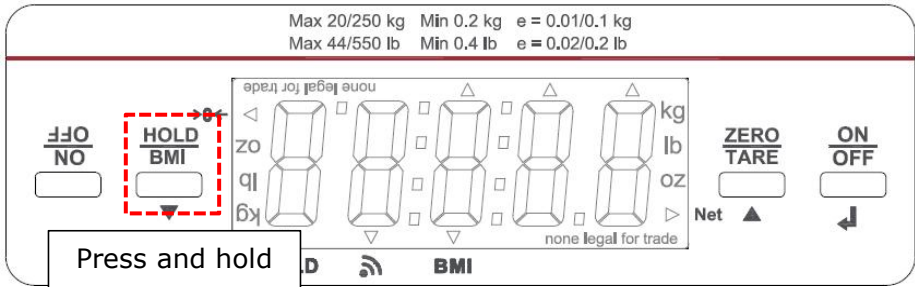
## B. Tare

The tare function allows the user to deduct the weight of objects from the device's measurement result.

1. Place object that needs to be tared onto measurement platform.
2. Press **[ZERO/TARE]** key after stable symbol appears on indicator. Display will indicate "0.00".
3. Guide subject (plus tared object) to stand on device. Conduct measurement.
4. To clear tare value, remove all objects from measurement platform, and press **[ZERO/TARE]** key.

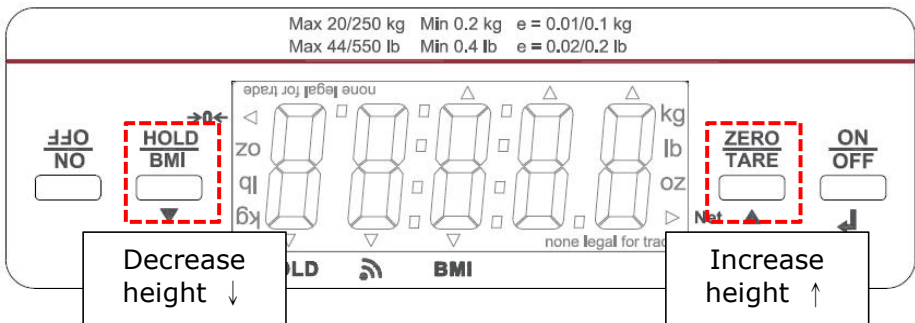
## C. Body Mass Index (BMI)

1. Before subject steps onto platform, press and hold the **[HOLD/BMI]** key for 3 seconds to enter BMI mode.



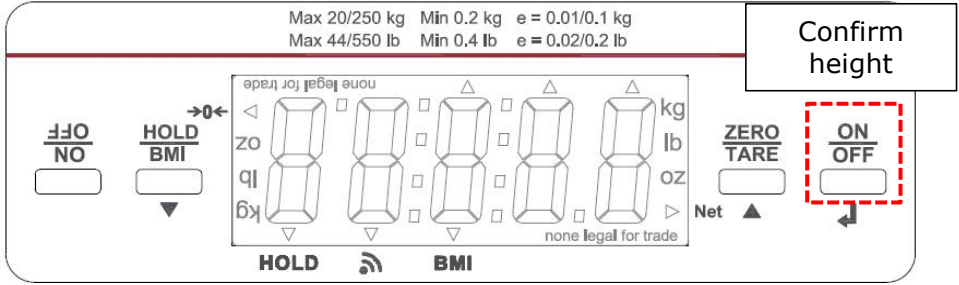
2. Display will show last input height.

3. Press **[ZERO/TARE]** key to increase height, and press **[HOLD/BMI]** key to decrease height. (press and hold keys to speed up)

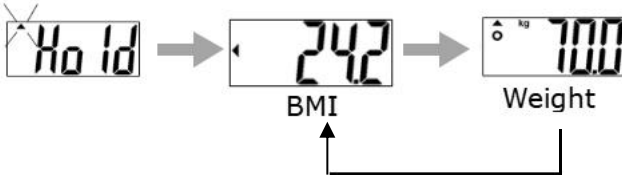


**NOTE:** Accepted height range: 50-210cm / 2-7ft

4. Press (operator-facing) **[ON/OFF]** key to confirm height.



5. Proceed to weigh subject as usual. Indicator will display weight and BMI after measurement.



6. Press **[HOLD/BMI]** to return to normal mode.

Category	BMI (kg/m <sup>2</sup> )	Risk of obesity-related disease
Under	< 18.5	Low
Normal	18.5-24.9	Average
Over	24.9-29.9	Slightly Increased
Obese I	30.0-34.9	Increased
Obese II	35.0-39.9	High
Obese III	> 40	Very High

(World Health Organization adult BMI standards)

## VII. Device Setup

When the device is turned on, press and hold the **[ZERO/TARE]** key for 6 seconds, until the display shows the "SETUP", followed by "A\_OFF" (first option in setting menu).

In device setup:

**[HOLD/BMI]** select menu option

**[ZERO/TARE]** confirm selection

*A\_OFF*

**Auto-off:** Instruct device to shut off automatically after a certain period of time.

Auto off options: 60 sec / 120 sec / 180 sec / 240 sec / 300 sec / off

Press **[HOLD/BMI]** to toggle between time options, and **[ZERO/TARE]** to confirm selection.

*ADPOF*

**Adapter Auto-Off:** Select whether auto-off will be activated when device is plugged into adapter.

Press **[HOLD/BMI]** to toggle between ON/OFF, and **[ZERO/TARE]** to confirm selection.

*b lue*

**Bluetooth (optional):** If device has Bluetooth module installed, Bluetooth function can be turned on or off.

Press **[HOLD/BMI]** to toggle between ON/OFF, and **[ZERO/TARE]** to confirm selection.

*HoldS*

**Hold Stop:** When Hold Stop is "on", Hold will deactivate after subject leaves measurement platform.

Press **[HOLD/BMI]** to toggle between time options, and **[ZERO/TARE]** to confirm selection.

DATE

**Date Setting:** press [**ZERO/TARE**] to increase. Press [**HOLD/BMI**] to move to next digit. Press [**ON/OFF**] to confirm setting and move to next input. (e.g. after inputting Year, press [**ON/OFF**] to input month).

Order is YYYY.MM.DD.HH.DD (Year, Month, Day, Hour, Minute) (24 hour format).

## VIII. Wireless Connection

If the device has the optional bluetooth module installed, the indicator can transmit measurement results wirelessly. Please see Charder wireless/bluetooth software instructions for details.

# IX. Troubleshooting

## Self-inspection

### 1. Device will not power on

- If battery power is depleted, replace with new batteries
- If batteries are not used, check if the AC power adapter is plugged into the device properly. Check if power adapter is plugged into mains properly

### 2. Measurement inaccuracy

- Interference due to factors such as RF disturbance or ground vibration. Relocate device to location without interference and try again
- External objects interfering with measurement platform. Clear platform of objects and try again
- Device may not function properly on soft surfaces such as carpets or lawns. Relocate device to location with solid, stable floor
- If the steps above cannot resolve the problem, re-calibration may be required to correct weighing accuracy

## Distributor support required

If the following errors occur, we recommend contacting your local Charder distributor for repair or replacement services:


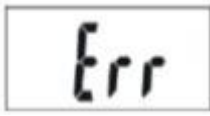


### 1. Device will not power on

- Faulty on/off key
- Broken or damaged wires causing short circuit or faulty connection
- Safety fuse burnout
- Faulty AC Adapter

### 2. Indicator damage

- Possible hardware defects include: uneven brightness in LCD screen, blurred text, smeared rainbow screen, incorrect decimal display
- Unable to save or read data
- Indicator shows "ERRL" after device is switched on
- Keys not responding
- Buzzer malfunction

## Error Messages

Error Message	Reason	Action
	<b>Low battery warning</b> Voltage of battery is too low to operate device	Replace batteries, or plug in adapter
	<b>Overload</b> Total load exceeds device's maximum capacity	Reduce weight on measurement platform and try again
	Zero count over calibration zero range +10% while power on	If problem persists, re-calibration required. Please contact distributor
	Zero count under calibration zero range -10% while power on	If problem persists, re-calibration required. Please contact distributor

## X. Product Specifications

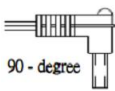
Model		MS6111
Weight Measurement	Capacity	0-20 kg x 0.01 kg 20-250 kg x 0.1 kg
	Accuracy	0~20kg ±30g 20~250kg ±600g
	Unit	kg/lb
	LCD Screen	1.0-inch LCD screen (5 digits)
Dimensions	Overall	345(W) x 350(D) x 45(H) mm
	Device Weight	2.5 kg
Key Functions		On/Off, Tare, Hold/BMI
Data Transmission		Wireless module (optional)  <b>NOTE:</b> Device should be connected to network by qualified distributors only.
Power Supply		4 AA batteries / Power adapter
Operation Environment		+5°C~+35°C 15% / 85% RH 700 hPa ~ 1060 hPa
Optional Add-ons		Thermal Printer, Height Stadiometer, Carrying Bag

### Power Adapter Standards



#### Warning

The device is only compatible with the power adapters specified below.

Amp Voltage	Drawing No.	CE Approved Type / Model No.	Type	Plug Shape
12V 1A	CD-AD-00044	UES12LCP-120100SPA	US, EU, UK, AU	 90 - degree

## XI. Declaration of Conformity

Manufacturer hereby declares that this product is in conformity with the regulations and standards outlined in the following directives:



**RoHS Directive 2011/65/EU and Delegated Directive (EU) 2015/863**

**Radio equipment and telecommunications terminal equipment Directive 2014/53/EU**

(applicable if device has wireless function)

**Part 15 of the Federal Communications Statement Rules**

This device may not cause harmful interference

This device must accept interference received without causing undesired operation

(Full Declaration of Conformity is available on manufacturer's website)

**Manufactured by:**



Charder Electronic Co., Ltd.  
No.103, Guozhong Rd., Dali Dist.,  
Taichung City 41262 ,Taiwan

CD-IN-1199 11172W 02/2026