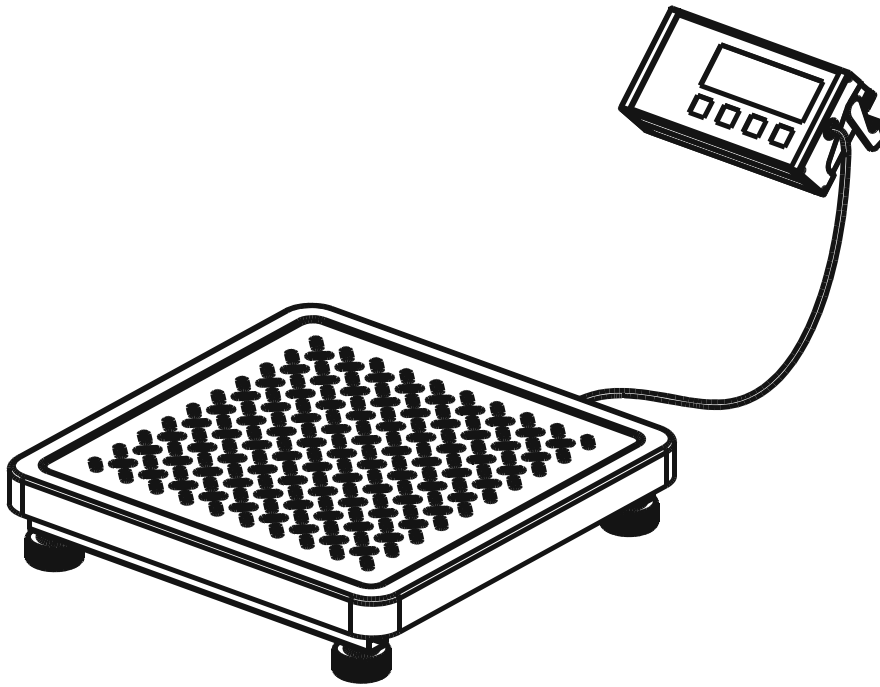


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## My Weigh HD Series Scales Manual



# My Weigh HD Series Scales Manual

Thank you for purchasing the My Weigh HD Series parcel scale. This scale is designed to provide years of accurate weighing. Please read this entire manual before use. If you have any questions about your scale or have troubleshooting concerns, please visit our website at [www.MyWeigh.com](http://www.MyWeigh.com).

## **\*\*Batteries and AC Adaptor:**

The HD Series scale was designed to run with AC power (ac adaptor included) or optional AA batteries. The AC adaptor plugs into the hole on the back side of the scales weighing indicator. If you want to use batteries, please install them in the battery compartment on the underside of the base of the scale.

For battery installation, turn over the scale, you'll see the battery compartment on the underside of the base of the scale, lift and open (see the enclosed drawing Fig1) the battery cover, remove and/or install the batteries. Be sure that the batteries are installed correctly following the polarity indicators in the battery compartment. Reinstall the battery cover..

Only operate the scale on a flat, level surface that is stable and durable enough to support the scale and the items being placed on the scale. Either place the remote display box together with the scale on its surface or mount the display box on a wall at a suitable height with the included wall mounting kit.

This HD Series scale is compatible with most UPS and other shipping software through the built-in RS-232 port. Please contact your software vendor for all computer hookup, operation and installation related questions. More information regarding RS-232 connectivity can be found in the Advanced Operating Instructions within Section 4 of this manual.

## **Notice:**

- 1). Press [ON/OFF] key to turn on the scale.
- 2). Press and hold [ON/OFF] for 3 seconds to turn off the scale.

## **1. Specifications**

<b>Model</b>	<b>HD150</b>	<b>HD300</b>
<b>Capacity</b>	60kg/150lb	120kg/300lb
<b>Graduation</b>	0.02kg/0.05lb	0.05kg/0.1lb

## **2. How to Program the Auto-off time:**

- (1) Press down the "D" key until the indicator displays "A.OFF.X" (X=0.1.2.3.4.5.6.7.8.9 minutes), the display value "X" is the auto-off time, when the "X" value is "0", the auto-off function is disabled.  
NOTE: The default factory setting is **X=0**
- (2) To change the auto-off time press the "M" or "D" key; the X value will increase or decrease by 1, press the "T" key to confirm the auto-off time setting.
- (3) To exit the auto-off timer programming, press the ⏻ key, the display will then reset.

## **3. Weighing Operation**

Press the ⏻ key, the display will show "150.00lb" for the HD150 shipping scale and "300.0lb" for the HD300 shipping scale. The display will then read "0.00". The scale is now ready for use. To begin weighing, follow these steps:

- (1) Press and release the ⏻ key, the scale is now set at its zero point. If you press and hold the key, then the scale will be turned off.
- (2) Press the "M" key to change the weighing unit between "lb" and "kg".

- (3) Press the “**T**” key to TARE or Zero the scale
- (4) Press the “**D**” key to transmit the data through the RS-232 port

**Definition of display symbols:**

- (1) **150.00**: the scales maximum capacity is 150.00lbs, the scale is attempting to locate the proper zero position for accurate weighing.  
**300.00**: the scales maximum capacity is 300.00lbs, the scale is attempting to locate the proper zero position for accurate weighing.
- (2) **0** \_\_\_\_\_ : the zero is too high
- (3) **A.OFF.x** :the indicator of auto-off time
- (4) **CAL-Er** : an error of calibration
- (5) **CAL-0** : the indicator mark of calibration zero
- (6) **CAL-F** : the indicator mark of calibration full capacity
- (7) **A.ch.Er** : an error of the A/D converter path
- (8) **EEP.Er** : writing and reading error of the memory chip.
- (9) \_\_\_\_\_ :the weight exceeds the maximum capacity (150.45lb/300.9lb)
- (10) \_\_\_\_\_ :the weight is less minimum capacity
- (11) **Lo** :low voltage
- (12) **SCI.x** :the select indicator of the transmission protocol.

**4. Advanced Operating instructions:**

(1) **How to reprogram the RS-232 Interface**

The RS-232 interface of HD shipping scale has four work modes: **SCI.1** (factory default setting and should not be changed unless necessary.) and **SCI.0,SCI.2,SCI.3**; to select the work mode, please use the following steps:

- Step1. Press down and hold the “**M**” key until the indicator displays “**SCI.x**” (x=0 or 1 or 2 or 3)
- Step2. Press the “**M**” or “**D**” key to change the x value, the display will flash the “**x**” value when it is changed, press the “**T**” key for confirmation, the “**x**” will then stop flashing
- Step3. Press the  $\odot$  key to exit programming

When work mode “**SCI.1**” (Serial Communication Interface transmitting and receiving data format “1”) is selected, the HD shipping scale will work with the UPS® Worldship® program. The HD Series data transmitting and receiving format is the same as the Toledo® PS60. Within UPS® Worldship®, select the COM1 Serial Port and select the Toledo® PS60 150lb ‘Flat Top’ Scale.

When work mode “**SCI.0**” is selected and the scales “**DATA**” key is pressed or the carriage return (0d hex) is received, the HD shipping scale will transmit the appropriate weight, unit, stability, over/down or low voltage message through computers serial port:

Baud rate : 9600bps  
 Start bit : 1 bit  
 Data bits : 8 bits  
 Stop bit : 1 bit  
 Parity : none

When work mode “**SCI.2**” is selected and the scales “**DATA**” key is pressed or the carriage return (0d hex) is received, and the weight is not zero and stable, the HD shipping scale will transmit the appropriate weight, unit, stability, over/down or low voltage message through computers serial port once..

Baud rate : 9600bps  
 Start bit : 1 bit

Data bits : 8 bits  
Stop bit : 1 bit  
Parity : none

When work mode “**SCI.3**” is selected and the scales “**DATA**” key is pressed or the carriage return (0d hex) is received, the HD shipping scale will transmit the appropriate weight, unit, stability, over/down or low voltage message through computers serial port continuously.

Baud rate : 9600bps  
Start bit : 1 bit  
Data bits : 8 bits  
Stop bit : 1 bit  
Parity : none

(2) **The scale transmits 14 bytes ASCII data each time:**

The details are as follows:

- Byte1. “:” (colon), starting byte
- Byte2. “**W**” the following 7 bytes (3 through 9) are weight;  
“**M**” the following 7 bytes (3 through 9) are messages
- Byte3. “-” Byte 4 through Byte 9 are negative weight;  
“ ” Byte 4 through Byte 9 are positive weight or other message
- Byte4. Current weight or other message
- Byte5. Current weight or other message
- Byte6. Current weight or other message
- Byte7. Current weight or other message
- Byte8. Current weight or other message
- Byte9. Current weight or other message
- Byte10.11. “**lb**” the weight unit is lb;  
“**kg**” the weight unit is kg
- Byte12. “**S**” the readings are stable;  
“ ” the readings are unstable
- Byte13. “**L**” low voltage  
“ ” normal voltage
- Byte14. Carriage Return (0d hex)

(3) **RS-232 connect between HD scale and Host :**

```
Scale-----Cable-----Host
(DB9 female)----- (DB9 male)- (DB9 female)----- (DB9 male)
TXD      2-----2-----2-----2  RXD
RXD      3-----3-----3-----3  TXD
GND      5-----5-----5-----5  GND
DSR      4-----4-----4-----4  DTR
DTR      6-----6-----6-----6  DSR
CTS      7-----7-----7-----7  RTS
RTS      8-----8-----8-----8  CTS
NC       1-----1-----1-----1
NC       9-----9-----9-----9
```

\*\*\*Note: HD scale DB9 female's pin4 and pin6 is shorted, pin7 and pin8 is shorted!

## 5. Calibration:

**Calibration is only for ADVANCED USERS or scale technicians and should only be performed if absolutely necessary.** There are two calibration methods available: one is using standard professional calibration weights, the other is the selection of different geographic location codes (gravity mode). The following is detail:

- (1) Press down the “**T**” key until the indicator displays “**GE.Uxx**”, “**GE.oxx**” or “**GE. FAC**”;
  - a. “**GE.Uxx**” means: USA geographic location code “xx” is selected;
  - b. “**GE. FAC**” means: Factory geographic location code is selected;
  - c. “**GE.oxx**” means: Other(except for USA and Factory) geographic location code “xx” is selected;
- (2) Press the “**M**” or “**D**” key to change the geographic location code; please refer the geographic location code table and maps at the end of the manual;
- (3) After selecting the appropriate geographic location code, press the “**T**” key, the scale will store your selection and display “**CAL-0**” or “**Go.on?**”( ? is flashed);

If “**CAL-0**” is displayed, that means the scale must be calibrated once more by using standard weights and you should proceed to the next step;

If “**Go.on?**” is displayed and the “**⊖**” key is pressed, the scale will use the selected geographic location code and reset automatically to resume normal weighing mode;

If “**Go.on?**” is displayed and the “**T**” key is pressed, the scale will display “**CAL-0**” and you should proceed to the next calibration step.

- (4) Remove all weights from the scale platform, press the “**T**” key , the “**0**” in “**CAL-0**” will flash
- (5) After the reading (0.00) becomes stable, the scale will display “**CAL-F**”; place the correct standard weight(s) on the platform (60kg standard weight for HD150, 120kg standard weight for HD300), press the “**T**” key, the “**F**” in “**CAL-F**” will flash
- (6) After the readings (60.00 for HD150 or 120.00 for HD300) are stable, the indicator will display “**CAL-0**”; remove the weight(s) from the platform, press the “**T**” key; the “**0**” in “**CAL-0**” will flash, and then the display will reset after 2-3 seconds

Calibration is now complete.

## 6. GRAVITY MODE

The Gravity Mode feature provides a means of adjusting the scale’s internal calibration factors to compensate for variations in acceleration due to gravity at different geographic locations. These differences can cause a given mass to indicate a slightly different weight at an end-users (local) site than it did at the Calibration (CAL) site.

The scale maintains two gravity setting values: one is local site gravity value; the other is calibration site gravity value. The scale will use the relationship between calibration and local gravity for its weight calculations.

We have compiled a list of local gravity values for some areas of the world. You only need select the index number of them according to the above step1 to step3. The latitude and altitude of your location both effect gravity and the calibration of your scale. It is important to select the proper code. If your location is not listed, select closest one. This kind of adjustment needs no calibration weights .

However, whenever possible, we **strongly** recommend that you calibrate the scale by using standard professional calibration weights.

## Addenda:

★ USA geographic location code:



State	Code	State	Code
<b>Alabama</b>		Mississippi	
Birmingham & North	13	<b>Kosciusko &amp; North</b>	<b>13</b>
South of Birmingham	12	<b>South of Kosciusko</b>	<b>12</b>
<b>Alaska</b>		Missouri	
North of Fairbanks	27	<b>North of Springfield</b>	<b>15</b>
Between Anchorage & Fairbanks	26	<b>Springfield &amp; South</b>	<b>14</b>
South of Anchorage	23	Montana	
<b>Arizona</b>		<b>Helena &amp; North</b>	<b>18</b>
Phoenix & North	12	<b>South of Helena</b>	<b>17</b>
South of Phoenix	11	Nebraska	<b>15</b>
<b>Arkansas</b>	13	Nevada	<b>13</b>
<b>California</b>		New Hampshire	<b>17</b>
Redding & North	16	New Jersey	<b>16</b>
Between Redding & Fresno	15	New Mexico	<b>11</b>
Fresno & Los Angeles	14	New York	
Los Angeles & South	13	<b>Albany &amp; North</b>	<b>17</b>
<b>Colorado</b>		<b>South of Albany</b>	<b>16</b>
Denver & North	13	North Carolina	
South of Denver	12	<b>Raliegh &amp; North</b>	<b>14</b>
<b>Connecticut</b>	16	<b>South of Raliegh</b>	<b>13</b>
<b>Delaware</b>	15	North Dakota	<b>18</b>
<b>Florida</b>		Ohio	
West Palm Beach & North	11	<b>Akron &amp; North</b>	<b>16</b>
South of West Palm Beach	10	<b>South of Akron</b>	<b>15</b>
<b>Georgia</b>	12	Oklahoma	<b>13</b>
<b>Hawaii</b>	9	Oregon	

<b>Idaho</b>		<b>Salem &amp; North</b>	<b>18</b>
North of Salmon River Mtns	17	<b>Between Oakridge &amp; Salem</b>	<b>17</b>
South of Salmon River Mtns	16	<b>South of Oakridge</b>	<b>16</b>
<b>Illinois</b>		Pennsylvania	<b>16</b>
Bloomington & North	16	Rhode Island	<b>16</b>
South of Bloomington	15	South Carolina	<b>13</b>
<b>Indiana</b>		South Dakota	<b>17</b>
North of Indianapolis	16	Tennessee	<b>13</b>
Indianapolis & South	15	Texas	
<b>Iowa</b>		<b>Northeast of Colorado River</b>	<b>12</b>
North of Des Moines	17	<b>Southwest of Colorado River</b>	<b>11</b>
Des Moines & South	16	Utah	<b>13</b>
<b>Kansas</b>	14	Vermont	<b>17</b>
<b>Kentucky</b>	14	Virginia	<b>14</b>
<b>Louisiana</b>	12	Washington, DC	<b>15</b>
<b>Maine</b>	18	Washington State	<b>18</b>
<b>Maryland</b>	15	West Virginia	<b>15</b>
<b>Massachusetts</b>	17	Wisconsin	
<b>Michigan</b>		<b>Green Bay &amp; North</b>	<b>18</b>
Northwest of Lake Michigan	18	<b>South of Green Bay</b>	<b>17</b>
Southeast of Lake Michigan	17	Wyoming	
<b>Minnesota</b>	<b>18</b>	<b>North of Casper</b>	<b>15</b>
		<b>Casper &amp; South</b>	<b>14</b>

★ Europe geographic location code:

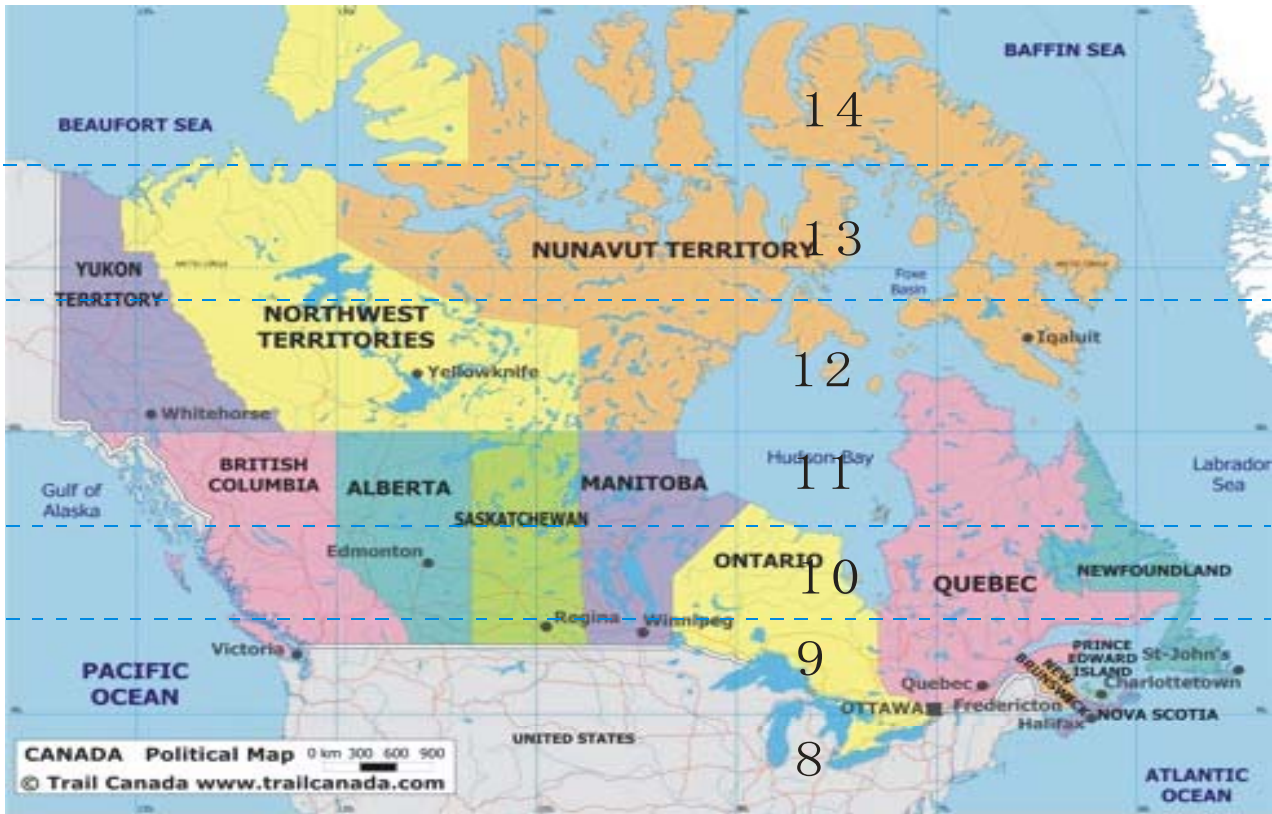


Country	Code	Country	Code
<u>Albania</u>	8	<u>Latvia</u>	11
<u>Andorra</u>	8	<u>Liechtenstein</u>	9



<b><u>Austria</u></b>	9	<b><u>Lithuania</u></b>	11
Belarus	10	<b><u>Luxembourg</u></b>	9
<b><u>Belgium</u></b>	10	Macedonia	8
<b><u>Bosnia and Herzegovina</u></b>	8	<b><u>Malta</u></b>	7
<b><u>Bulgaria</u></b>	8	<b><u>Moldova</u></b>	9
<b><u>Croatia</u></b>	9	<b><u>Monaco</u></b>	8
<b><u>Czech Republic</u></b>	9	<b><u>Netherlands</u></b>	10
<b><u>Denmark</u></b>	11	<b><u>Norway</u></b>	12
<b><u>Estonia</u></b>	11	<b><u>Poland</u></b>	10
<b><u>Faroe Islands</u></b>	12	<b><u>Portugal</u></b>	7
<b><u>Finland</u></b>	12	<b><u>Romania</u></b>	8
<b><u>France</u></b>		<b><u>Russia</u></b>	
Lyon & North	9	<b><u>Moscow &amp; North</u></b>	12
South of Lyon	8	<b><u>South of Moscow</u></b>	10
<b><u>Germany</u></b>		<b><u>Spain</u></b>	
Frankfort & North	10	<b><u>Madrid &amp; North</u></b>	8
South of Frankfort	9	<b><u>South of Madrid</u></b>	7
<b><u>Gibraltar</u></b>	7	<b><u>Serbia and Montenegro</u></b>	8
<b><u>Greece</u></b>	7	<b><u>Slovakia</u></b>	9
<b><u>Holy See (Vatican City)</u></b>	8	<b><u>Slovenia</u></b>	9
<b><u>Hungary</u></b>	9	<b><u>San Marino</u></b>	8
<b><u>Iceland</u></b>	12	<b><u>Sweden</u></b>	
		<b><u>North of Stockholm</u></b>	12
		<b><u>Stockholm &amp; South</u></b>	11
<b><u>Ireland</u></b>	10	<b><u>Switzerland</u></b>	9
<b><u>Italy</u></b>	8	<b><u>Ukraine</u></b>	9
		<b><u>United Kingdom</u></b>	
		North of Newcastle	11
		Newcastle & South	10

★ Canada geographic location code:



State	Code	State	Code
<b>Alberta</b>		Prince Edward Island	9
North of Edmonton	11	Quebec	
Edmonton & South	10	<b>North of Schefferville</b>	11
<b>British Columbia</b>		<b>Between Schefferville &amp; Sept-Iles</b>	10
North of Prince George	11	<b>Sept-Iles &amp; South</b>	9
Prince George & South	10	Saskatchewan	
<b>Manitoba</b>		<b>North of Prince Albert</b>	11
North of Norway House	11	<b>Prince Albert &amp; South</b>	10
Norway House & South	10	Northwest Territories	
<b>New Brunswick</b>	9	<b>Echo bay &amp; North</b>	13
<b>Newfoundland</b>		<b>South of Echo bay</b>	12
North of Hopedail	11	Nunavut Territory	
Between Hopedail & Fleur de lys	10	<b>Victoria Island &amp; North</b>	14
Fleur de lys & South	9	<b>Between Victoria Island &amp;</b>	13
<b>Nova Scotia</b>	8	<b>Baker Lake</b>	
<b>Ontario</b>		<b>South of Baker Lake</b>	12
North of Nakina	10	Yukon Territory	
Nakina & South	9	<b>North of Dawson</b>	13
		<b>Dawson &amp; South</b>	12

★ Bottom view of the scale

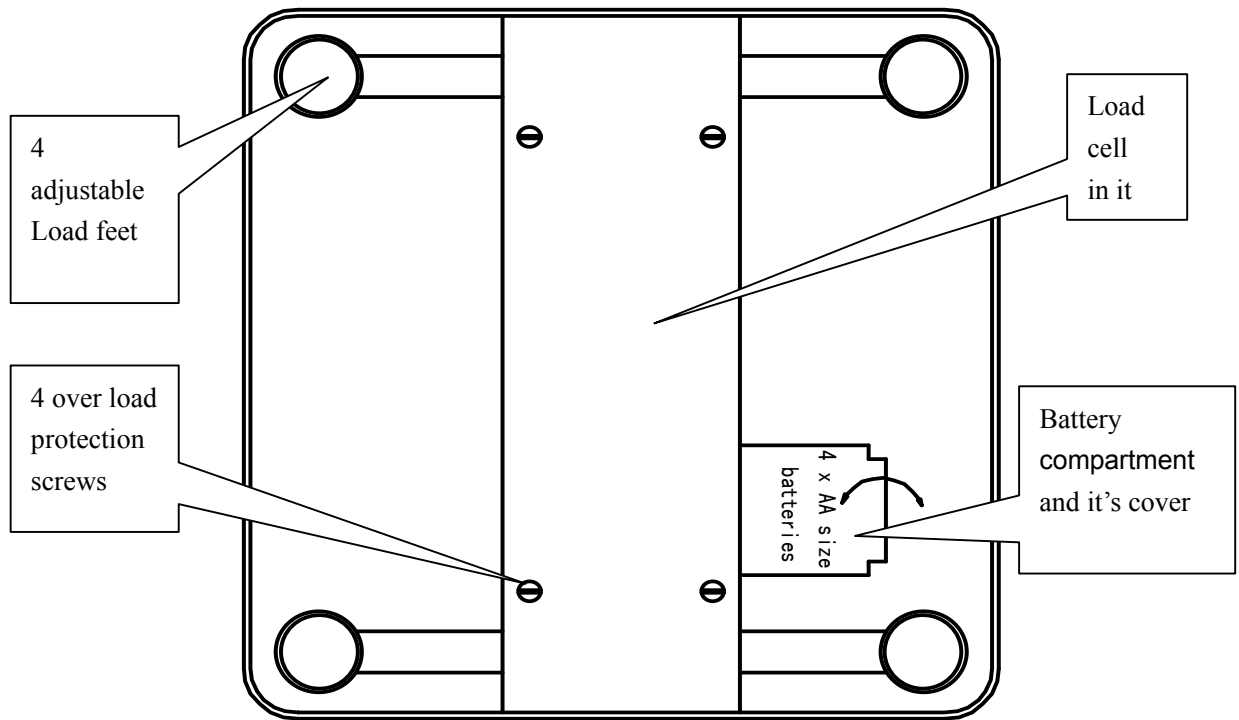


Fig1 Bottom view of the scale

★ Indicator's outline and placement positioning

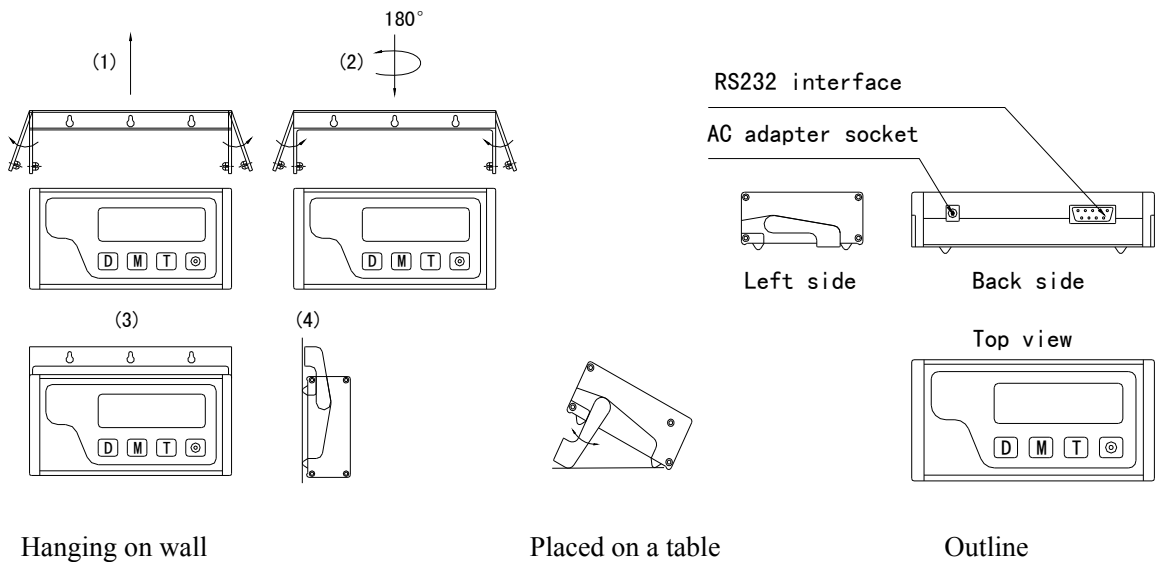


Fig-2 Indicator's outline and placement positioning