Stand-on Floor Scale

USER MANUAL

MS4640

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

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I. Explanation of Graphic Symbols on Label/Packaging

Text/Symbol	Meaning
	Caution, consult accompanying documents before use
	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, and year/country of manufacture
	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
REF	Device catalogue number / model number
EC REP	Name and address of authorized representative in the European Union
MD	Device is a medical device. Text indicates device category type
LOT	Manufacturer's batch or lot number for device
SN	Device's serial number
UDI	Device's Unique Device Identifier
e	Verification Scale Interval. Value expressed in units of mass. Used to classification and verification of an instrument.
CE 2460	Device conforms to (EU) 2017/745 Regulation on Medical Devices. Fourdigit number is identifier for medical device Notified Body

CE M 20 0122	Device complies with EC directives (verified models only) **M**: Conformity label in compliance with Directive 2014/31/EU for non-automatic weighing instruments **20**: Year in which conformity verification was performed and the CE label was applied. (ex: 16=2016) **0122**: Identifier for metrology Notified Body
III	Device is a Class III scale in compliance with Directive 2014/31/EU (verified models only)
	Name and address of entity importing device (if applicable)
	Name and address of entity responsible for translating Information For Use (if applicable)
CON.	Event counter confirming how many times device has been calibrated (if applicable)
	Device conforms to Taiwan National Communications Commission(NCC) approval
	Device conforms to U.S. Federal Communications Commission regulations
UK CA M 20 8506	Device complies with UK non-automatic weighing instruments regulations 2016 (verified models only) **M**: Conformity label in compliance with Non-automatic Weighing instruments Regulations 2016 **20**: Year in which conformity verification was performed and the UKCA label was applied. (ex: 20=2020) **8506**:Identifier for metrology approved body
UK CA	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.
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Charder Electronic Co., Ltd.
No. 103, Guozhong Rd., Dali Dist.,
Taichung City, 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

- Batteries should be kept away from children. If swallowed, promptly seek medical assistance.
- The device has an expected service life of 5 years when correctly handled, serviced, and periodically inspected in accordance with manufacturer's instructions.

- Always comply with appropriate regulations when using electrical components under increased safety requirements.
- Ensure voltage marked on power supply matches mains power supply.
- The device is intended for indoor use only.
- Observe permissible ambient temperatures for use

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

- The period of warranty shall be eighteen (18) months, 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.

- 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.

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

Guidance and manufacturer's declaration-electromagnetic emissions		
The product isintended 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.		
Emission test	**Compliance**	**Electromagnetic environment-guidance**
RF emissions CISPR 11	Group 1	The product uses RFenergy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronicequipment.
RF emissions CISPR 11	Class A	The product is suitable for use in all establishments other than domesticand 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	

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
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 anuninterruptible 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 hospitalenvironment .

NOTE UT is the a.c. mains voltage prior to application of the testlevel.

Guidance and manufacturer's declaration-electromagnetic immunity

Theproduct is intended for use in the electromagnetic environment specified below.

The customer or the user of the product should assure that is used in such and 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:** $d = 1,2 \sqrt{P}$ $d = 1,2 \sqrt{P}$ 80MHz to 800 MHz $d = 2,3 \sqrt{P}$ 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 rangeapplies.

NOTE2 Theseguidelinesmaynotapplyinallsituations.Electromagneticpropagationi saffectedbyabsorptionand reflection from structures, objects andpeople.

a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios,amateurradio,AMandFMradiobroadcastandTVbroadcastcannotbepredictedtheoreticallywithaccuracy.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 exceedstheapplicable 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.

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b 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 preventelectromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the product as recommended below, according to the maximumoutput power of the communications equipment.

Rated maximum output power of transmitter W	**Separation distance according to frequency of transmitter m**		
	150 kHz to 80 MHz $d = 1,2\sqrt{P}$	**80 MHz to 800 MHz** $d = 1,2\sqrt{P}$	**800 MHz to 2,7 GHz** $d = 2,3\sqrt{P}$
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.

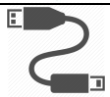
NOTE2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

IV.SPECIFICATION

Model	MS 4640
Display	DP3710
Data transfer	USB (B-type)
Capacity	300kg x 0.1kg
Accuracy	±0.15kg
Weight Unit	kg
LCD Display	1.0 inch LCD display with 5 and 1/2 digits
Dimension	Platform size: 340 x 450 mm
Key Functions	ON/OFF, ZERO, PRINT, BMI, HOLD, PRE-TARE, TARE , CLEAR, ENTER, 0~9 , M1-5
Power Supply	➢ 6-AA size batteries ➢ Rechargeable battery pack (optional). ➢ 12V AC Adaptor
Operation Environment	0°C ~ + 40°C(DP3710) 15% - 85% RH 700 hPa ~1060 hPa
Standard Accessories	Adjustable Feet x 2 ; spacer x 2; Fixed plate (top) x 1.;Fixed plate (bottom) x 1;Tapping Screw x 2; User manual x 1; 12V 2A Adaptor x 1; Plastic anchor x 2, Screw x 2, USB cable x 1
Options	Indicator stand
	AR-2491 carry bag
	TP2110 thermo printer

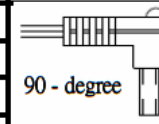
V. Installation

A、Standard Accessories

No.	Accessories	Item	Spec.	Qty.
1		Adjustable feet	M6*15	2
2		Spacer	∮6.6*∮13	2
3		Fixed plate (top)	SS-4961	1
4		Fixed plate (bottom	SS-4971	1
5		Tapping Screw	M3*6	2
6		Plastic anchor	1”(white)	2
7		Screw	4*20	2
8		USB cable		1

B、POWER ADAPTOR STANDARDS

⚠ CAUTION: The device is only compatible with restricted power adaptors in dashed block below.

AMP VOLTAGE	DRAWING NO.:	CE APPROVED TYPE NO. / MODEL NO.:	TYPE	
9V DC 100mA	AD-0484	D35W090100-23/1	US	 90 - degree
9V DC 100mA	AD-038A	D41W1090100-13/1	EU	
9V DC 100mA	AD-037A	D41WK090100-23/2	UK	
9V 200mA	AD-8082(AD-0544)	UE05WCP-090020SPC	US	
9V 200mA	AD-8082(AD-0544)	UE05WCP-090020SPC	EU	
9V 200mA	AD-8082(AD-0544)	UE05WCP-090020SPC	UK	
9V 200mA	AD-8082A(AD-0544A)	UE05WCP-090020SPC	AU	
15V 300mA	AD-016D	D41W150300-13/1	US	
15V 300mA	AD-0420	D41WI150300-13/1	EU	
15V 300mA	AD-0370	D41WK150300-23/2	UK	
15V 300mA	AD-0482	D41WA150300-13/2	AU	
15V300mA	AD-8079D(AD-0536D)	UE05WCP-150030SPC	US	
15V300mA	AD-8079A(AD-0536A)	UE05WCP-150030SPC	EU	
15V300mA	AD-8079B(AD-0536B)	UE05WCP-150030SPC	UK	
15V300mA	AD-8079C(AD-0536C)	UE05WCP-150030SPC	AU	
12V 1A	AD-8084B	UE24WV-120100SPA	EU	
12V 1A	AD-8084	UE24WB-120100SPA	UK	
12V 1A	AD-8095	UE24WCP1-120100SPA	US	
12V 1A	AD-8095	UE24WCP1-120100SPA	EU	
12V 1A	AD-8095	UE24WCP1-120100SPA	UK	
12V 1A	AD-8095	UE24WCP1-120100SPA	AU	
12V 2A	AD-8058(AD-0521)	UE24WU-120200SPA	US	
12V 2A	AD-8057(AD-0520)	UE24WV-120200SPA	EU	
12V 2A	AD-8056(AD-0519)	UE24WB-120200SPA	UK	
12V 2A	AD-8074(AD-0534)	UE24W4-120200SPAS	AU	
12V 1A	AD-8096	UE24WCP1-120100SPA	US	 180 - degree
12V 1A	AD-8096	UE24WCP1-120100SPA	EU	
12V 1A	AD-8096	UE24WCP1-120100SPA	UK	
12V 1A	AD-8096	UE24WCP1-120100SPA	AU	
12A 1.5A	AD-8025A(AD-0527)	GFP181DA-120150B-2	US	
12A 1.5A	AD-8025D(AD-0529)	GFP181DA-120150B-2	UK	

C、PANEL

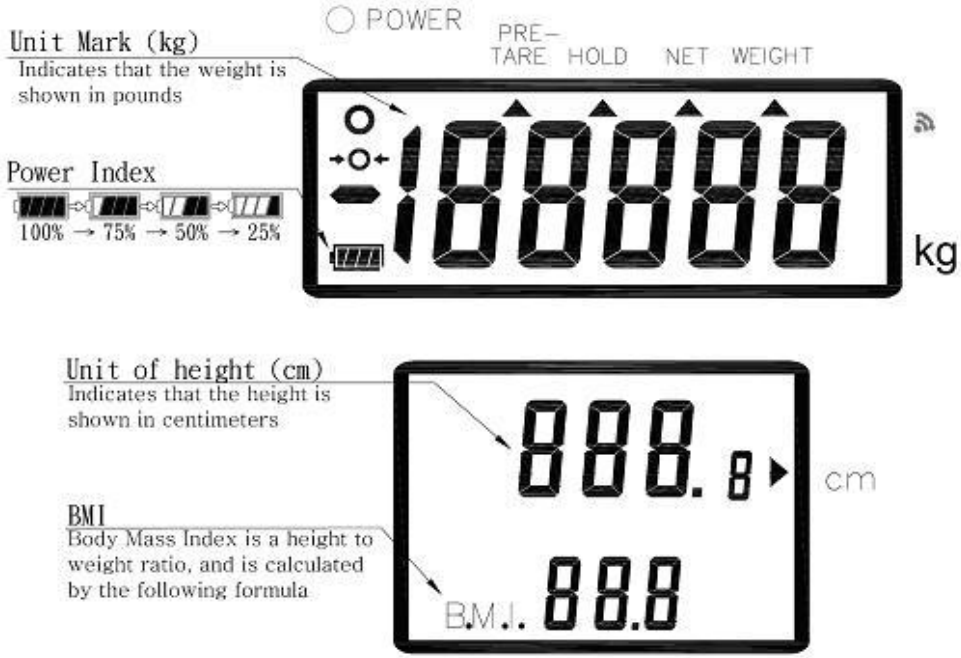
DP3700

DP3710 (Wireless optional)

D、KEY FUNCTION

Key	Description
ON/OFF	Turn ON/OFF the scale
PRINT	Data transmission via interface(Print-out the results)
BMI	To determine Body Mass Index
HOLD	To determine stable weighing value in case of unstable weight.
ZERO	To reset the display to 0.0kg display / Zero the scale (±2% of full capacity)
M1-5	To store 5 pre-tare values (Approval Model).
PRE-TARE	Pre-tare function for subtraction of a known container weight or any other object before weighing process.
TARE	Tare allows the user to zero the instrument to cancel the weight of a container/ clothes from the reading of the instrument, thus giving the true weight of the product/ person being tested, while weighing.
CLEAR	To clear the wrong entry while entering digits.
ENTER	To confirm the performing functions.
0-9	Entering digits

E、LCD SYMBOL DESCRIPTION



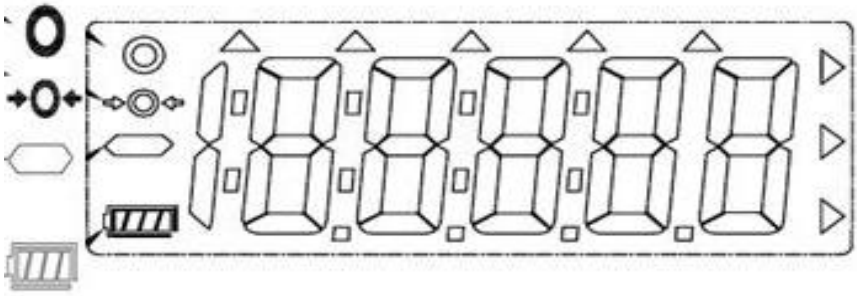
F、Definitions

Stable symbol: To indicate that the weight is stable.

Minus weight: Weight under zero.

Zero symbols: Weight is at zero point.

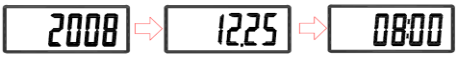
Low battery: Battery need to charge or replaced with new ones.



G、TIME SETTING

Long press HOLD key for 3 seconds to enter the TIME SETTING mode, beginning with the top row, with the flashing digit. Press HOLD key after successful change to move to next step.

EX: To input Dec 25, 2008, 8:00am.

	Enter year using keys from 0~9. Press HOLD key after successful entry to move to next.
	Enter date. Ex: 12/25 enter “12.25” Press HOLD key after successful entry to move to next.
	Enter time.
	Display Format YYYY→MM.DD→TT:SS

H、USING SCALE

- Switch on the scale using ON/OFF key. The diagnostic scale self-check is performed and the software version is displayed.
- The „**0,00 kg**" weight displays on the screen, now the scale is ready for weighing.

Note: If „**0,00 kg**" won't display on the screen, press ZERO key to zero the scale, ZERO can be used any time to zero the scale.

- Place a person in the middle of the scale. Wait until the scale stabilizes and stable sign (**o**) shows on the screen

Direction*:*

If a person is heavier than the scale capacity, the display will show the „Err" prompt (= overload).

I、USING HOLD FUNCTION

Charder Medical Scale is provided with the integrated HOLD function to determine the 'locked' weight by capturing the average balance weight from the fluctuation of weighing on the platform. It enables people to be weighed accurately whenever the movements on the scale platform may not be stabilized.

Note*: Determining average weight may not be possible in case of big fluctuation due to movements in weight.*

- Press **[ON/OFF]** key to switch on the scale. The diagnostic self-check will be performed and wait until "**0.0 kg**" is displayed on the top LCD screen with 'stable' and 'zero mark' appeared on the far left side of the top LCD screen.
- Move the object/ person onto the scale platform. Press **[HOLD]** key. The 'HOLD' will display on the screen.

- Wait for a few seconds of blinking signal until LCD screen displays a fixed average value based on fluctuating weight, the weighing result will be a locked weight value on the LCD display.
- To release the locked weight value on display simply remove the weight substance from the platform or press the **[HOLD]** key again and the display will return to normal mode automatically for the next new weighing.
- **Press [HOLD]** key function can be before or after putting the weight on the tread platform. In case of unstable weight due to external movements on the platform, it is recommended to press **[HOLD]** key after the weight is positioned ready on the tread platform.

J、USING BMI FEATURE

1. In normal mode, press BMI key to enter into BMI mode.
2. The lower LCD display will show a default height value blinking.
3. Enter the height value from left to right by pressing numerical keys from (0~9). (ex:170cm)
4. Proceed to weigh under normal mode. The scale LCD display will show the weight, height, and BMI value.
5. The weight and height can be changed whenever the weight on the platform is changed accordingly; CHARDER Scale is capable of calculating the BMI value according to the changed weight and height spontaneously.
6. HOLD feature can also be applied to lock the weighing value if the weight is unstable under normal weighing mode.
7. Press BMI button to return normal weighing mode again.

Body Mass Index Categories

Classification of weight for adults over 18 years on the basis of Body Mass Index according to WHO, 2000 EK IV and WHO 2004 (WHO - World Health Organization).

Category	BMI (kg/m^2)	Risk of diseases accompanying overweight
Underweight	< 18.5	low
Normal weight	18.5 – 24.9	average
Overweight	≥ 25.0	
Preobesity	25.0 – 29.9	slightly increased
I degree of obesity	30.0 – 34.9	increased
II degree of obesity	35.0 – 39.9	high
III degree of obesity	≥ 40	very high

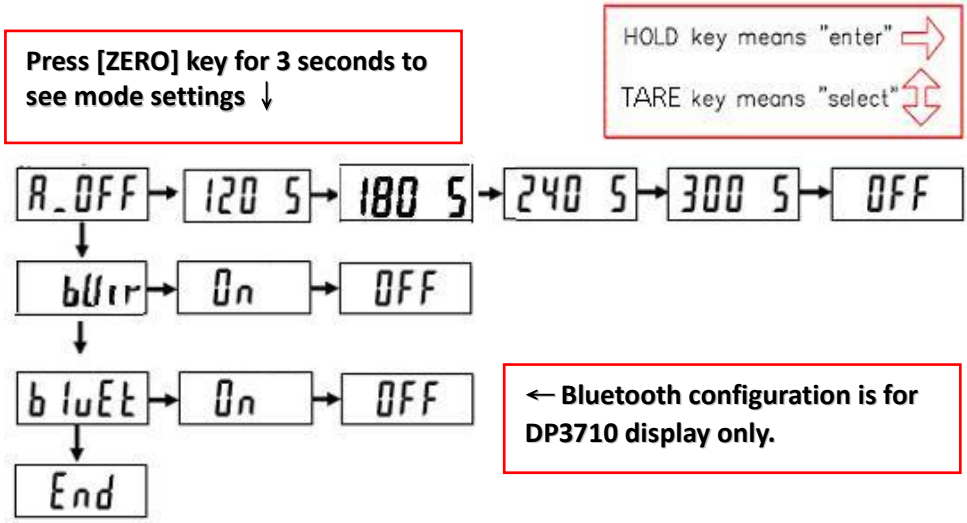
K、USING TARE FUNCTION

TARE allows the user to subtract the tare weight from the gross weight of a substance that contains the actual weight to be weighed (gross weight), thus giving the true weight (net weight) such as product package or person unable to take off certain clothing substance but requires to be weighed precisely.

- First, place the weight of a substance for tare on the tread platform.
- Press “TARE” key after the weighing becomes stabilized and stable symbol displays. Wait for the LCD display to become zero again, and then remove the tare weight from the platform.
- Place the actual weight to be weighed onto the platform (Including the same weight of the previous tare object). The LCD screen will show the actual weighing value subtracting the tare weight from it automatically.

To delete the previous saved tare value, remove the tare object from the tread platform and press “TARE” key again for the next new tare weight.

L、USING INTERNAL SETTING



Switch ON the scale and long press [ZERO] key for 3 seconds. “SETUP” will display on LCD and then “A.OFF” is shown on the LCD successively for 3 mode settings.

AUTO-POWER OFF TIME SETUP

Press [HOLD] to enter auto-off time setting
120 sec / 180 sec / 240 sec / 300 sec / off
Press [HOLD] to go through selection & [TARE] key to confirm the setting. For example: If select 240 S as auto off time, press [TARE] key until 240 S displays on the screen. Then press [TARE] to return to setting menu for other settings again.

BUZZER ON/OFF SETUP

Press [HOLD] to enable beep sound ON/OFF and confirm by pressing [TARE].

WIRELESS TRANSMISSION FUNCTION

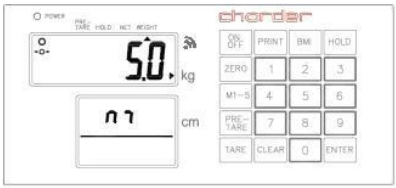
Press [HOLD to Wireless: On/Off

Note: To apply the changes proceed by pressing [TARE] until "END" is displayed on the screen, and then press [HOLD] to confirm changes.

VI.STORING AND RE-CALLING PRE-TARE WEIGHT

This scale model can store up to 5 sets of pre-tare values, and there are two methods to store pre-tare value – *Using Dead Weight or Enter weight using 0~9 numerical keys.*

A. Using Dead Weight:

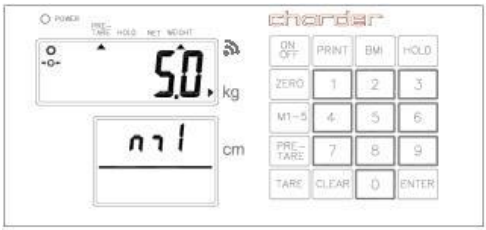
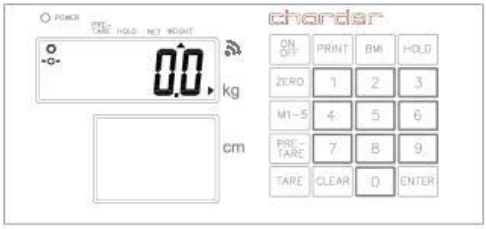
DESCRIPTION	EXAMPLE
After weighing on the platform; press key **[M1-5]**, 'm' sign will display on lower LCD screen for memory of tare value.	
Press numerical keys from 1 ~ 5 to assign up to 5 memory tare values in advance for pre-tare weight.	
Press ENTER key to store pre-tare weight; the instrument will make beep sound to perform the next weighing function.	

B. Enter Weight Using 0~9 Keys:

DESCRIPTION	EXAMPLE
Press **[PRE-TARE]** key, the default value of 50kg will blink in the upper LCD screen. ☞NOTE: It will return to normal mode after 6 seconds if no weighing objects are placed onto the platform loadcells.	
Manually enter numerical 0~9 key digits as the required pre-tare weight. For example: 5kg. Enter the key digits from left to right and then press **[ENTER]** to save it.	
The display will show the minus sign of the manually entered pre-tare value while the platform is cleared without any weight on it.	
Press **[M1-5]** key; the blinking '**m**' sign will appear on the LCD screen as memory function to save the pre-tare value.	
Press numeral key digits **1 ~ 5** to assign up to 5 memories of pre-tare values for the next weighing of true weight.	

Press **[ENTER]** to save each pre-tare weight value into the memory, thus the scale instrument will make beep sound to confirm changes.	
Press **[Clear]** to go back to normal mode & perform the next new weighing.	
Press [CLEAR] key to correct digits in case if mistakes are made in typing; blinking zero will be shown on screen again.	

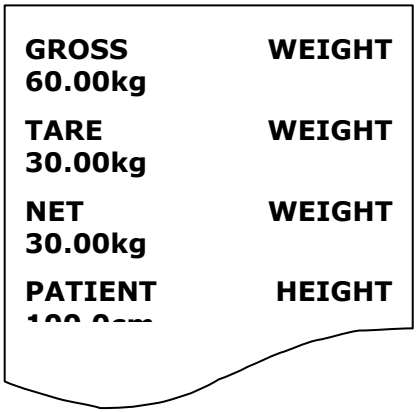
C. RECALL PRE-TARE VALUE

DESCRIPTION	EXAMPLE
Long press PRE-TARE key for 3 seconds; the display will recall the memory saved for the pre-tare value starting from “m1” up to “m5”. The pre-tare value will blink.	
Enter numerical keys 1 ~ 5 to recall a memory pre-tare value	
Press **[ENTER]** key to perform the minus subtraction of the pre-tare weight recalled from the memory; Place the actual weight onto the platform at this step, the scale instrument will automatically perform tare function to produce true weight value.	
Press **[Clear]** key to return to Normal Weighing Mode.	

M、PRINTING FUNCTION

The Weighing, BMI and Height results can be printed for hard copy records by pressing PRINT button on CHARDER Scale display panel.

The format presented below is the standard format of results print-out and cannot be changed.



HOW TO SETUP USB CONNECTIONS ON PC (DP3710 only)

1. Make sure the PC hardware device has USB port version2.0 or above compatibility. Users may need to consult with local computer accessories dealer to select the proper USB cable length that is most suitable to work environment for best performance, then connect the cable first between the PC and CHARDER Scale model.
2. Run HyperTerminal program under Windows OS computer and input printer port parameter settings, please refer to the next Section in <Step 7> on how to setup HyperTerminal program in user's computer for printer port parameters.

3. Once the HyperTerminal setting is ready, make sure the USB cable is connected properly between the user PC's USB port and the CHARDER Scale Model again. Press PRINT button on the Scale Display Panel for printout of weight & BMI data from thermal printer

Hyper Terminal setting in PC for printout

Hyper Terminal is a freeware on PC Windows XP SP3 or lower to setup the PC printer com-port with USB cable connector transmission.

For use on Windows Vista or higher please download hyper terminal software program from Charder website:

http://www.chardermedical.com/download/dlist-4.htm

4. Start Hyper Terminal

After taking the weight and BMI, run Hyper Terminal program from the PC's Windows OS with the following steps:

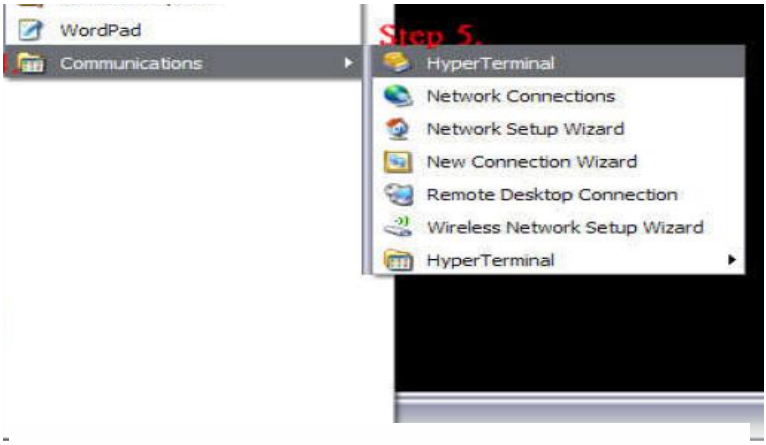
Step.1- Click on Start Button.

Step.2- Go to All Programs.

Step.3- Select Accessories.

Step.4- Find Communications.

Step.5- In Communications section click on HyperTerminal.



5. New Connection Description

Name the connection and click OK Button

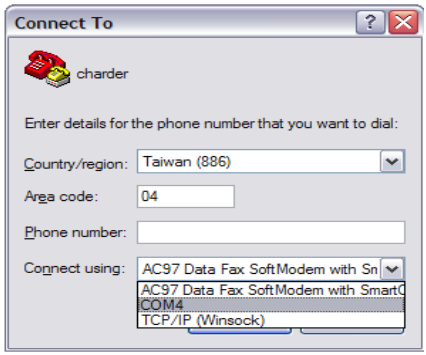
6. Select COM Port on User PC

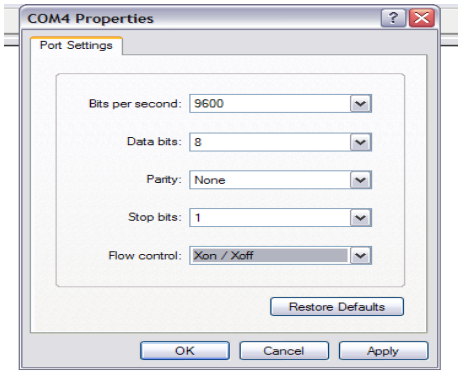
Click Connect to select COM port on the computer. Then click OK

7. Port Settings for Printout

Set up as below:

- Baud rate: 9600 bps
- Parity check: None
- Data length: 8 bits
- Stop bit: 1 bit
- Handshake: RTS/CTS
- Data code: ASCII





USB Driver Install

The scale confirms to the USB PL2303

Make sure the computer software has a USB scale interface.

PL2303 driver download:

http://www.prolific.com.tw/US/ShowProduct.aspx?pcid=41&showlevel=0017-0037-0041

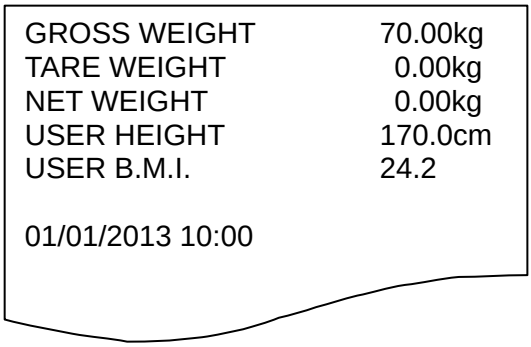
8. Printout Data Through USB cable connector

Click OK button to complete the setting. The PC will retrieve the weighing & BMI data from the CHARDER scale and display on the HyperTerminal program similar to the layout below.

While the Hyper Terminal program is running, type “P” KEY on the PC keyboard to transmit a print command to printout from the thermal printer on the CHARDER scale for hard copy of weighing data & BMI.

Or, press the [PRINT] button on the display panel of the CHARDER scale, the

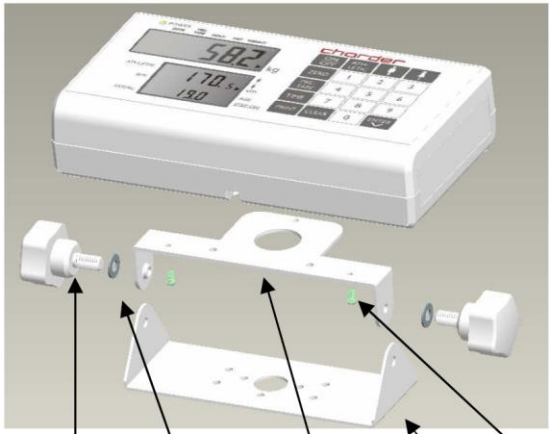
printout presented below is the standard format print layout as well as shown on the HyperTerminal computer screen.

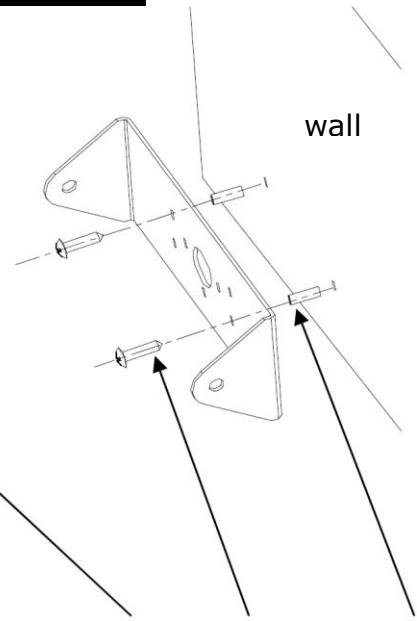


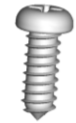
VII.WIRELESS CONNECTION

Enable the Bluetooth function on user ANDROID version 4.3+ smart phone/tablet or I-Phone IOS version is an alternative wireless transmission technology to connect with Display Head DP3710 version when there is limited working space for cable wire connections.

VIII.ASSEMBLY OF DP3700/3710 BRACKET



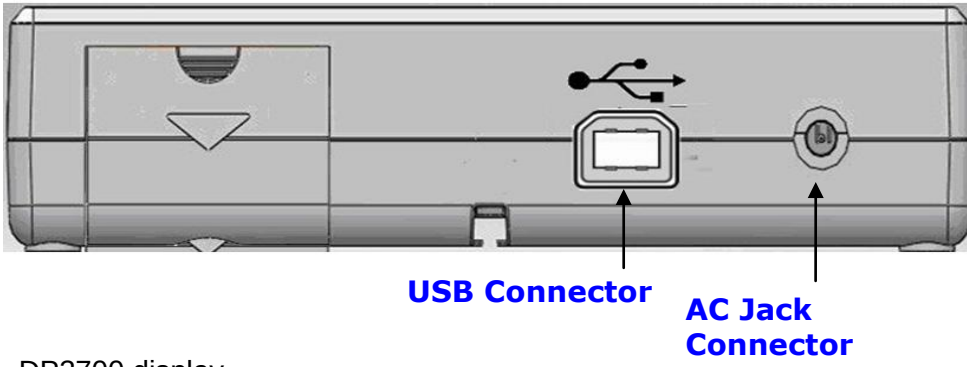


						
Adjustable feet	spacer	Fixed plate (top)	Fixed plate (bottom)	Tapping Screw	Screw	Plastic anchor
2	2	1	1	2	2	2

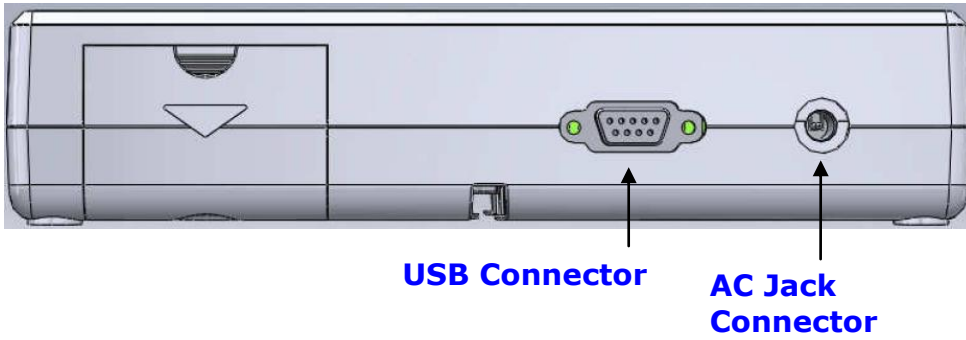
IX.INSTRUCTION FOR CHARGING AND CONNECTING

If Lo prompt displays on the LCD, please charge the scale with MS 4640 exclusive adaptor or replace the batteries.
Locate adaptor plug on the right side of indicator.

DP3710 display



DP3700 display



CAUTION:

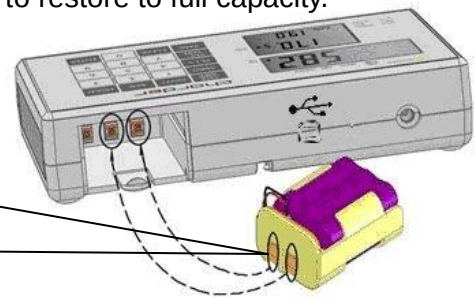
Always connect the AC adaptor with the indicator before connecting to the mains power supply.

Please disconnect the adaptor from main power supply before remove the plug from indicator.

A、USING RECHARGEABLE BATTERY (OPTIONAL)

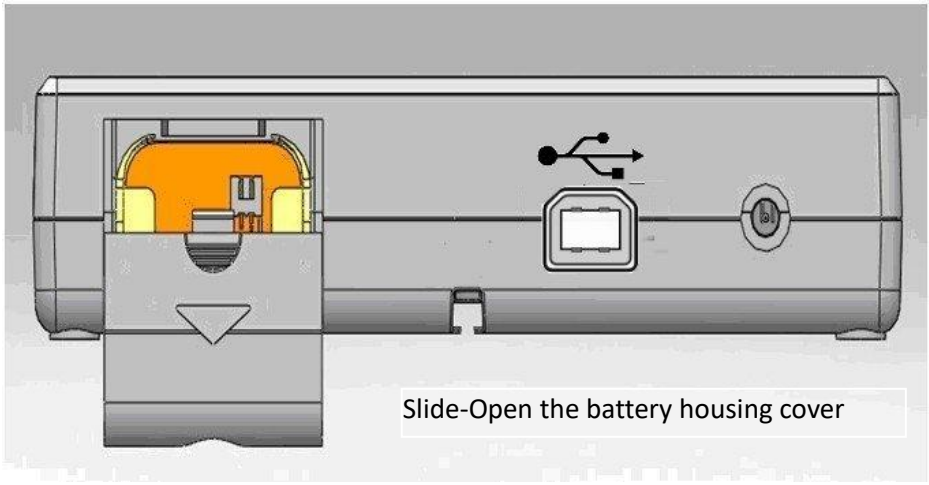
The rechargeable battery should be recharged at least every 3 months regardless if it is used or not.
After a long period in storage, e.g. over 3 months, the battery should run a full cycle (charge/discharge) to allow it to restore to full capacity.

Make sure the rechargeable battery housing is installed properly and insert with the right position into the compartment

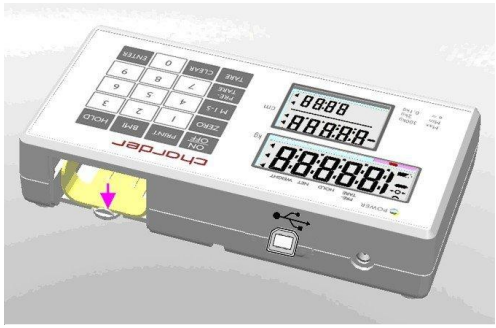


B、INSTRUCTION FOR BATTERY INSTALLATION

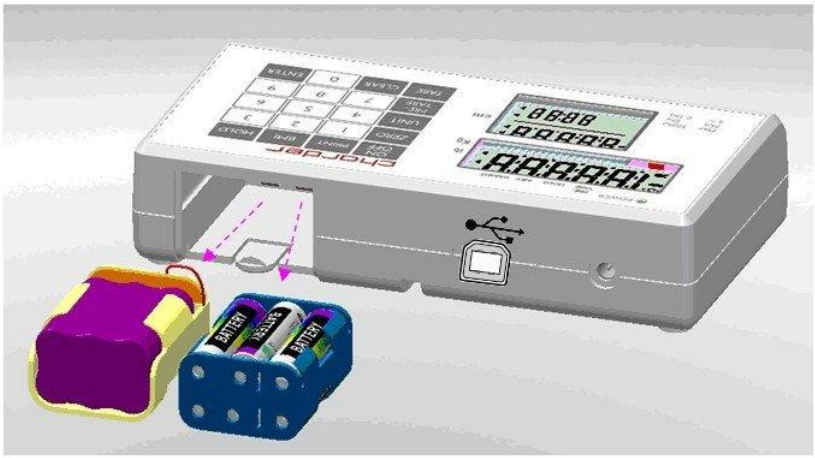
1.



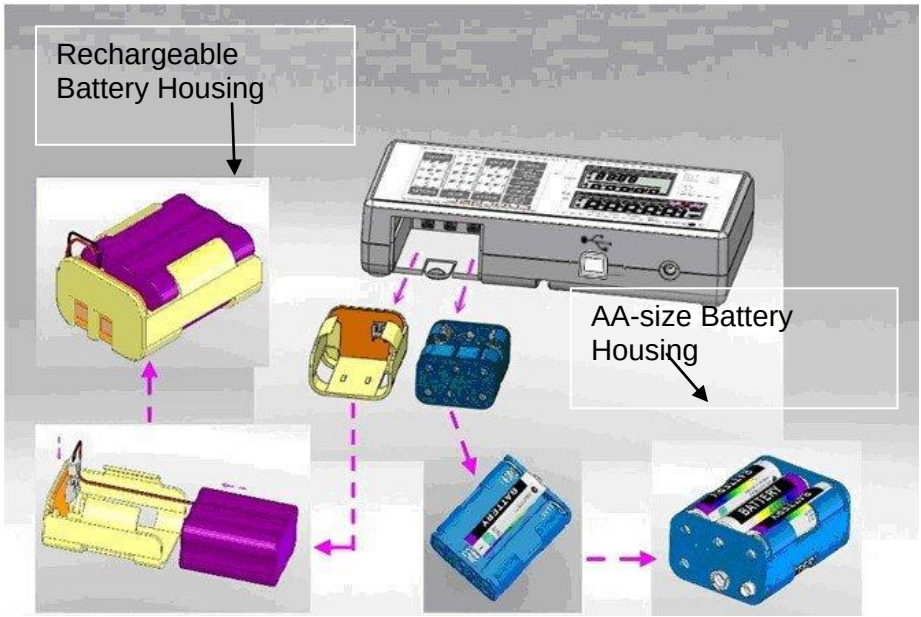
2.



3.

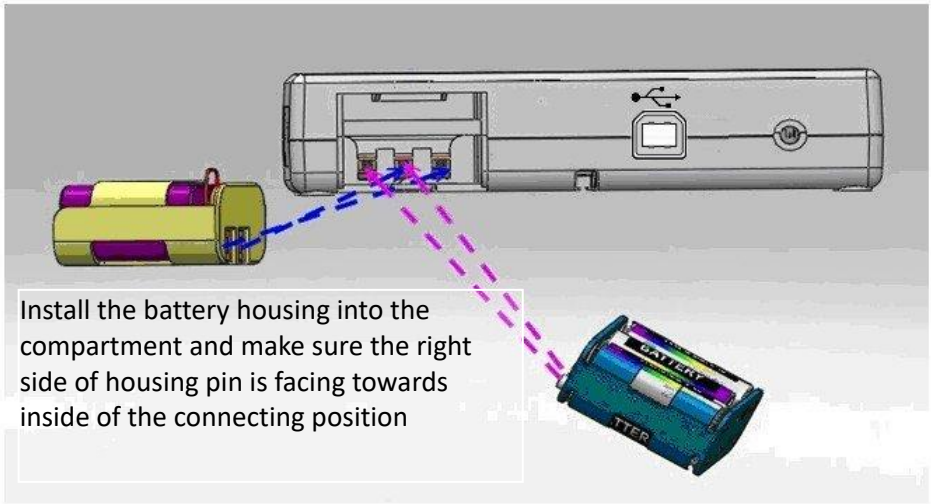


4.

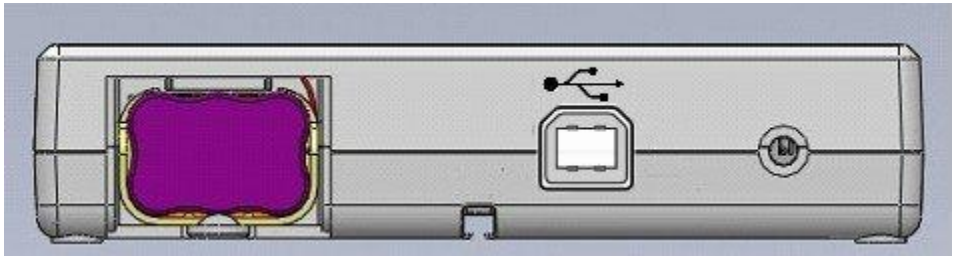


Make sure all batteries are installed into the housing with correct position

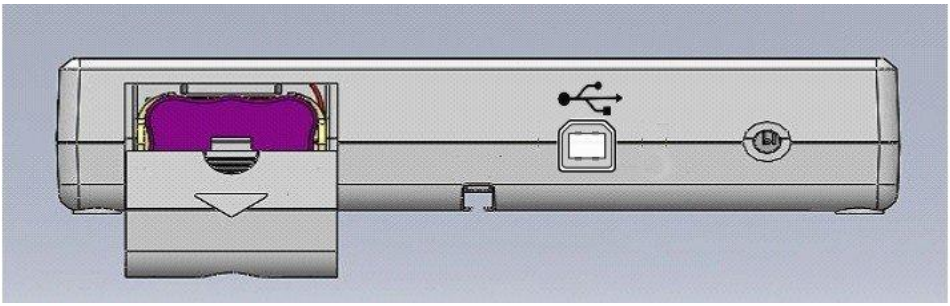
5.



6.



Slide back the cover to close the battery housing compartment.
Then switch on the power button on the panel to see if the battery housing is correctly installed with good battery lifetime.



X.ERROR MESSAGE

ERROR MESSAGE	REASON	ACTION
	Low Battery: This warning shows that the voltage of battery is too low to use.	Please replace a new battery or plug the AC adaptor for operation.
	Overload: The total load exceeds the maximum capacity of scale.	Please reduce the loading and try again.
	Counting error(too high): Indicates that the signal from the loadcell is too high.	This error is normally caused by a serious fault on the scales such as a faulty loadcell or wiring. Please contact the local serice representatives.
	Counting error(too low): Indicates that the signal from the loadcell is too low.	This error is normally caused by a serious fault on the scales such as a faulty loadcell or wiring. Please contact the local serice representatives.
	Zero count over calibration zero range +10% while power on.	Please re-calibrate the instrument.
	Zero count under calibration zero range -10% while power on.	Please re-calibrate the instrument.
	EEPROM Error: Indicates that there is a fault with the scales software.	This error is normally caused by a serious fault on the scales such as a faulty loadcell or wiring. Please contact the loadcell service representatives.

Notes

Notes

XI.Manufacturer's Declaration of Conformity

This product has been manufactured in accordance with the harmonized European standards, following the provisions of the below stated directives:

CE 2460	(EU) 2017/745 Regulation on Medical Devices
CE M year	2014/31/EU Non-automatic Weighing Instruments Directive (OIML models only)

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

Radio Equipment Directive 2014/53/EU
(applicable if wireless module is used)

Part 15 of the Federal Communications Statement Rules
This device may not cause harmful interference.
This device must accept any interference received, including interference that may cause undesired operation.

Please see separate document showing on sticker of device for above markings.

Authorized EU Representative:

EC REP **Obelis s.a.**
Bd Général Wahis, 53
B-1030 Brussels
Belgium

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

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