Bed Scale

USER MANUAL
MS6080

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

CONTENTS

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
	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
	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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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.

Bed containing patient is pushed onto two weight bridges containing digital scale. Device measures weight of bed plus patient using digital scale. Both weight bridges are used simultaneously. By deducting weight of bed from total, weight of patient can be measured.

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

Intended medical indications/contraindications
Measurement: subject'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 (Patient's weight limit is dependent upon bed weight. If bed weighs 50 kg, patients up to 450 kg can be weighed, if device capacity is 500 kg.)
(c) Patient Conditions: require measurement of body weight.

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
- Able to push bed onto measurement platform. Two users recommended.

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. Bed 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

Guidance and manufacturer's declaration-electromagnetic emissions		
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.		
Emission test	**Compliance**	**Electromagnetic environment-guidance**
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	

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 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 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.
Radiated RF IEC 61000-4-3	3 V/m 80MHz to 2,7 GHz	3 V/m 80MHz to 2,7 GHz	**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: 

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.

a 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.

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 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	**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.

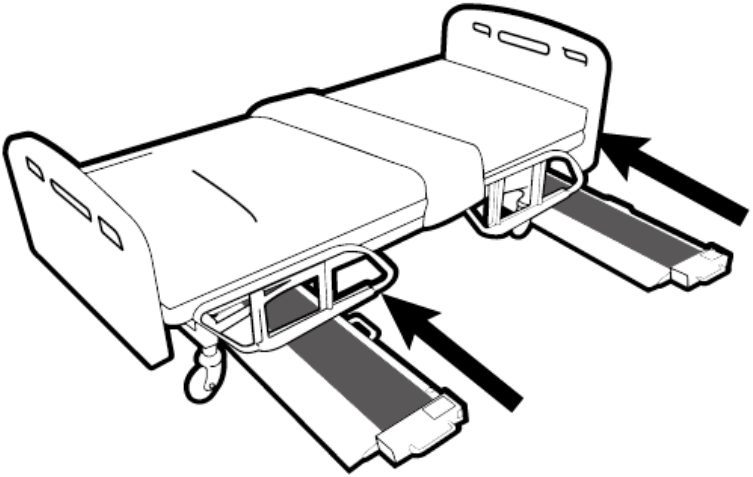
NOTE1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

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

IV. Installation

A. Setting up weight bridges

1. Place weight bridges under bed next to bed castors.

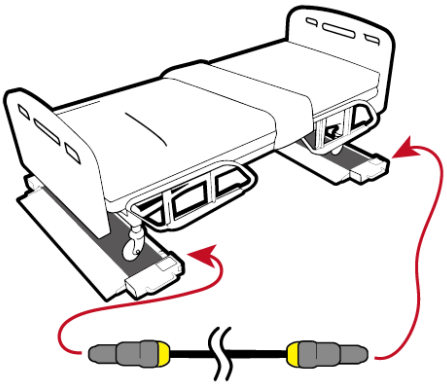


2. Device should be placed on non-slippery, flat, hard, level surface. Make sure bubble level indicator is centered to ensure result accuracy.

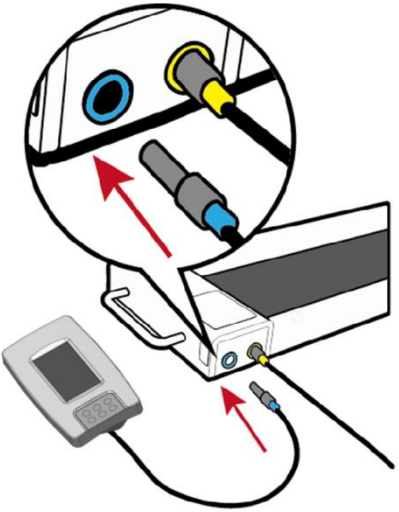
Bubble indicator: Level

Not level

3. Connect weight bridges. All pins should be connected slowly and carefully to avoid damage.



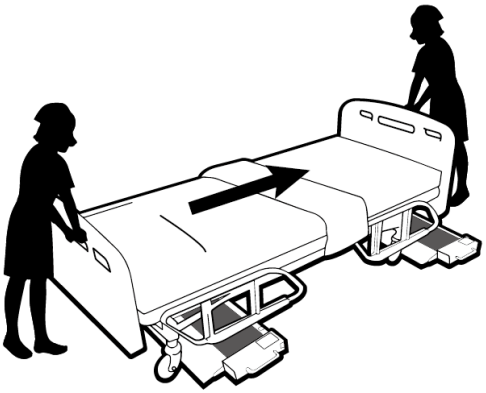
Yellow cable should be plugged into yellow port
(for weight bridges)



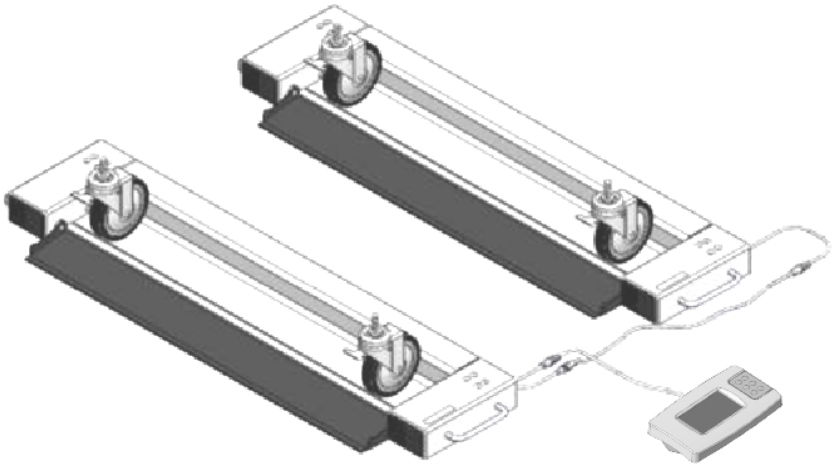
Blue cable should be plugged into blue port (for indicator)

4. Turn on device.

5. **After device is turned on**, push bed onto weight bridges. Two people may be needed to complete procedure.



Note: take care not to catch connecting cable under platform or bed.

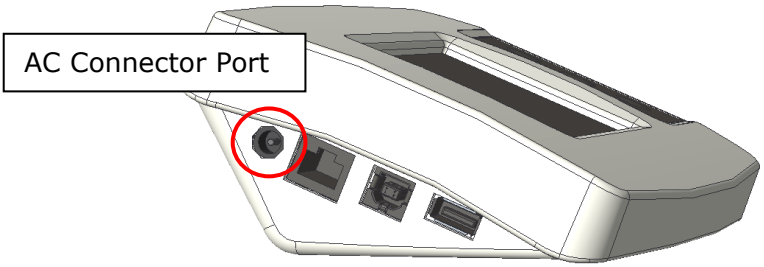


B. Using adapter and charging battery

The rechargeable battery should be recharged at least once every 3 months, regardless of if the device has been used. Battery can be charged by plugging device's exclusive adapter into AC Connector Port.

After a long period in storage (e.g. >3 months), the battery should run a full cycle (charge/discharge) to allow it to restore full capacity.

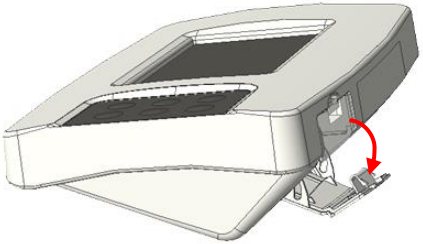
Ensure rechargeable battery housing is installed and inserted properly into the compartment.



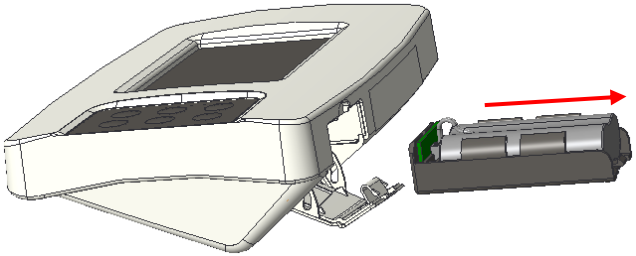
If  prompt displays on the LCD, please charge battery promptly to avoid battery damage.

C. Replacing Rechargeable Battery Pack

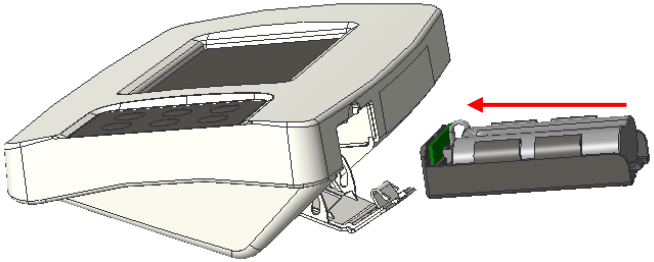
1. Open battery housing cover



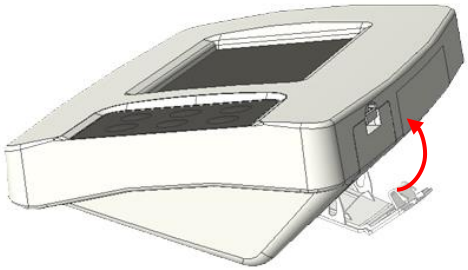
2. Accessing batteries



3. Remove battery pack from housing. Press down on tabs marked in red circles and push battery pack outwards (not entirely).

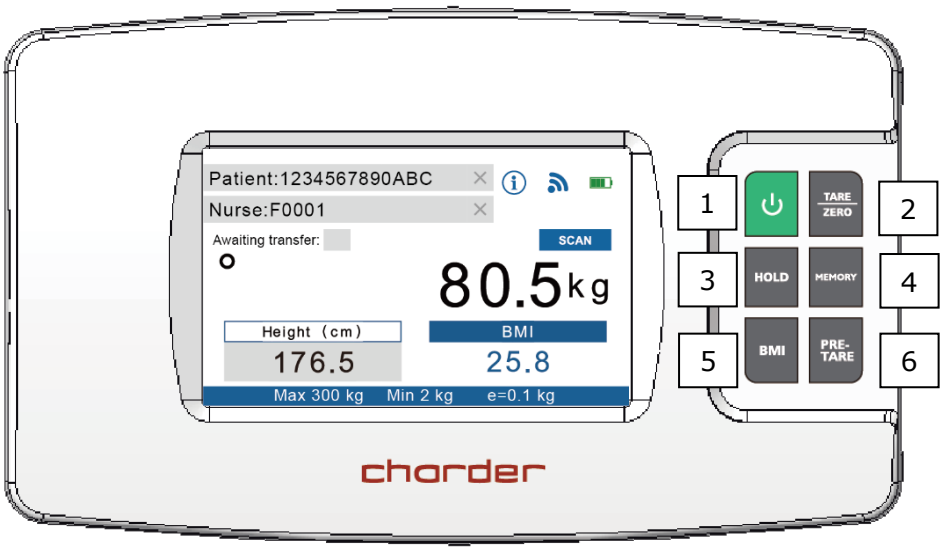


4. Close battery housing compartment cover. Turn on power to confirm that battery is correctly installed.



V. Indicator

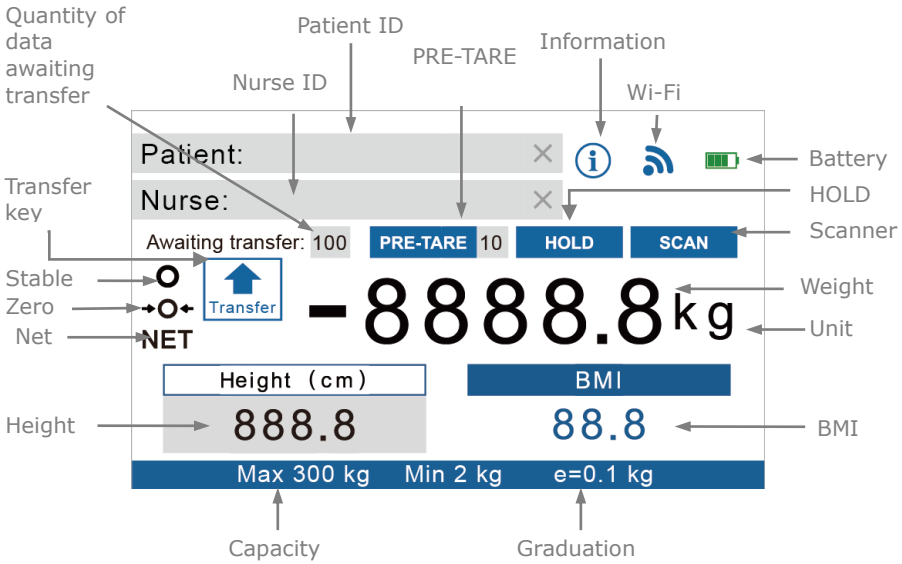
A. Indicator and Key Functions



Key Function

POWER	Power on or power off.
TARE/ZERO	Reset display to 0.0 kg display. Press and hold for 6 seconds to enter device settings.
HOLD	Determine stable weighing value - used when weight is unstable.
MEMORY:	Save pre-tare values (up to 10 sets can be stored in device memory)
BMI	Calculation of Body Mass Index
ALARM	Turn weight change alarm on/off, adjust volume of alarm
PRE-TARE	Pre-tare the known weight of an object (ex: chair) before beginning measurement.

B. Display layout



Definitions

Quantity of data awaiting transfer: If device is not connected wirelessly, measurement results will be temporarily stored in device. Once device is connected, operator can press **Transfer** to send results wirelessly. After transfer is complete, number will revert to "0"

PRE-TARE: If Pre-Tare function is active, this indicates which pre-tare value is being used.

HOLD: Will appear if Hold is active. (Hold needs to be activated in order to save and transfer results)

SCAN: Will appear if compatible barcode scanner is plugged into device

Transfer: After measurement is completed, height/weight result can be transferred wirelessly (if Hold is active). Press **[Transfer]** to send results.

Wi-Fi: Indicator will reflect current Wi-Fi connectivity status.

disconnected connected

VI. Basic Operation

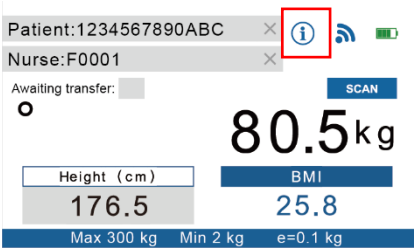
1. Switch on the device using ⏻ key. The device will automatically perform self-calibration
2. Once "0.0" appears on indicator, device is ready for use

NOTE: If "0.0" does not display on indicator, press **[TARE/ZERO]** key to zero the device.

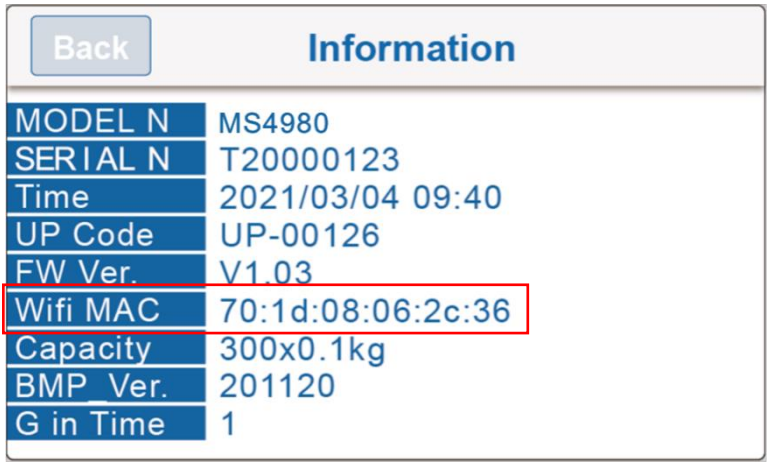
A. Setup wireless data transfer

Direct Wi-Fi data transfer

NOTE: If results do not need to be transferred after measurement, this step can be skipped.



1. The device acts as an Access Point that can be connected to via Wi-Fi. To ensure that the phone/tablet/PC connects to the correct device, first identify the device's MAC Address by clicking ⓘ



2. The "name" of the device's Wi-Fi Access Point will be "DP4800_(MAC Address)" The default password to connect to the device is "00000000"

NOTE: The Model No. displayed in Information will vary depending on the device model.

3. After the phone/tablet/PC is connected to the device, the wireless symbol will change from to

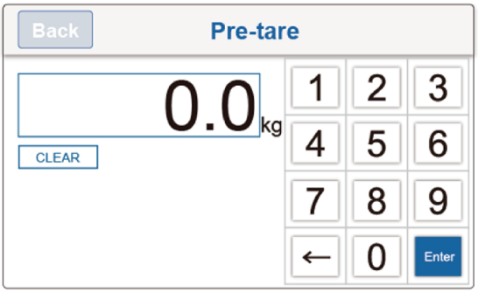
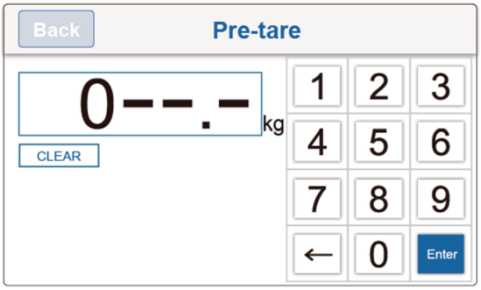
4. Device is now ready to send results wirelessly to phone/tablet/PC.
5. Before or after measurement, press the **[HOLD]** key. "HOLD" will be displayed on the indicator. If HOLD is not active, results cannot be transferred.

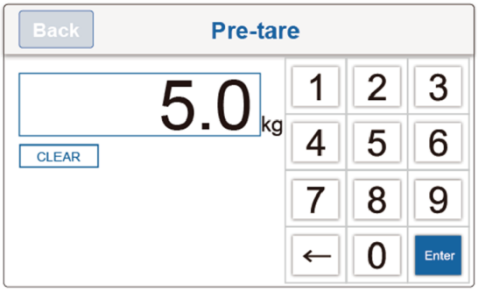
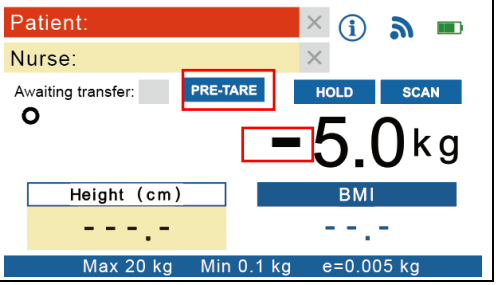
NOTE: by default, patient ID, weight, and height must be filled in to transfer results. Otherwise, **[Transfer]** button will not appear. To allow transfer of "incomplete" results, please change settings (press and hold **[TARE/ZERO]** key for 6 seconds to enter settings).

B. Pre-Tare

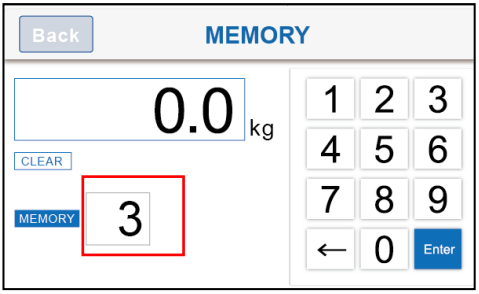
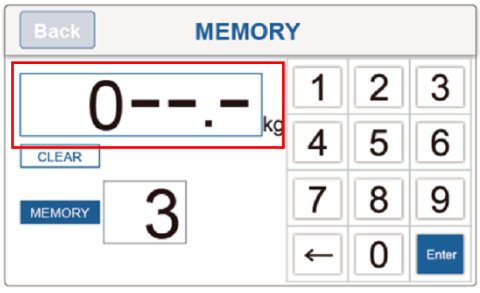
The Pre-Tare function is used to subtract the known weight of the hospital bed prior to weighing. The device can store 10 sets of pre-tare values in memory. Once pre-tare weights have been stored, they can be recalled by pressing the **[MEMORY]** key.

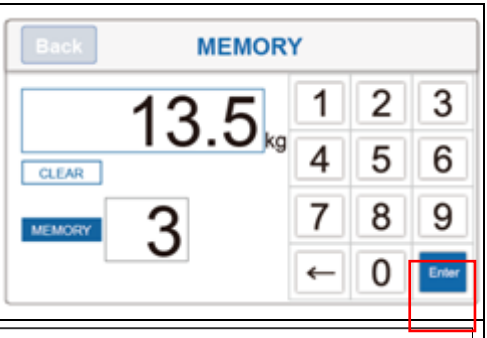
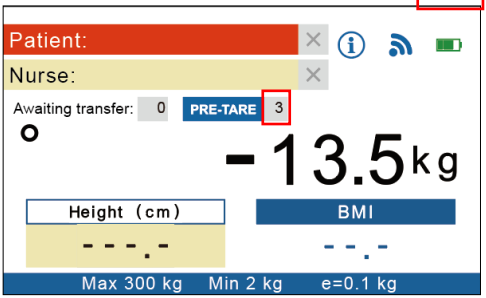
Input Pre-Tare Value

DESCRIPTION	EXAMPLE
Press **[PRE-TARE]** key. Input pre-tare weight value, starting from the left	
Enter pre-tare weight using 0~9 keys. Ex: to pre-tare 5.0 kg of weight, press 0-0-5-0. Ex: to pre-tare 13.5 kg of weight, press 0-1-3-5.	

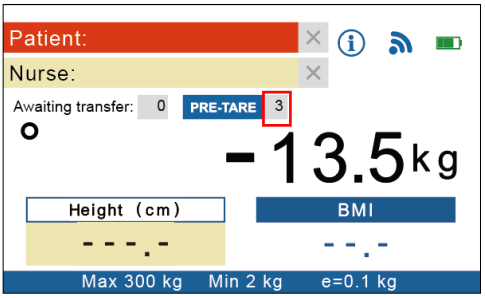
(-5.0 kg used as example) Press **[Enter]** key to confirm the pre-tare weight.	
Device will return to measurement mode. Indicator will display minus sign to the left of pre-tare weight value.	

Save a Pre-Tare value

DESCRIPTION	EXAMPLE
Press and hold **[MEMORY]** key for 3 seconds. Input the number for this pre-tare setting (between 01-10). Ex: To save memory set 3, press 0-3.	
Press the weight value box on the screen (marked in the red box to the right) Enter pre-tare weight using 0~9 keys. Ex: to pre-tare 13.5 kg of weight, press 0-1-3-5.	

Press **[Enter]** key to store pre-tare weight (saved to memory set 3, in this example)	
PRE-TARE ID will show Pre-Tare memory set 3 as active, and deduct the pre-tare value (13.5 kg, in this example) from the displayed weight result.	

Recall Pre-Tare Value

DESCRIPTION	EXAMPLE
Press **[MEMORY]** key to toggle between Pre-Tare settings saved in device (between 01-10). **NOTE**: to add new Pre-Tare value, please press and hold **[MEMORY]** key for 3 seconds to enter settings (see "Save a Pre-Tare value" above)	

C. Weight measurement

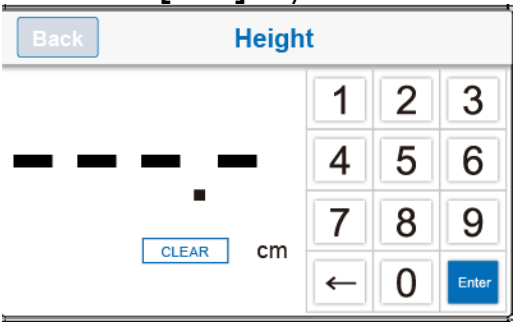
1. Setup device under patient's bed. Activate the Pre-Tare weight of the bed by pressing **[MEMORY]**, selecting the correct bed weight, and pushing the bed on to the measurement platform. After a few seconds, the average weight will be displayed on the indicator.

2. If BMI calculation is unnecessary, press **[Transfer]** button to send results wirelessly. If device is not currently connected, results will temporarily be stored in device memory (number of records saved indicated by 'Awaiting transfer'). After transfer is complete, number will revert to "0"

D. BMI calculation

Manual Input

1.Press the **[BMI]** key to enter BMI mode.



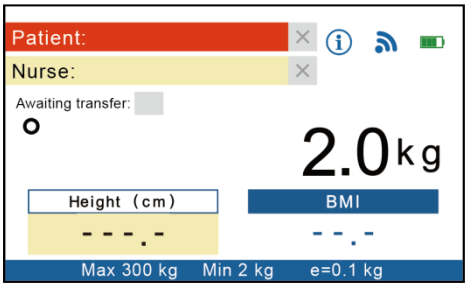
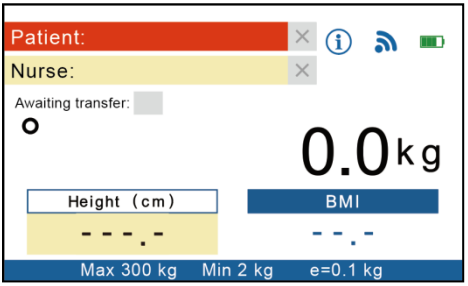
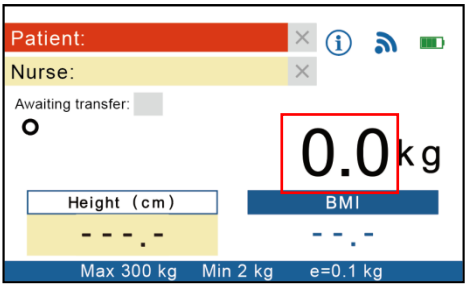
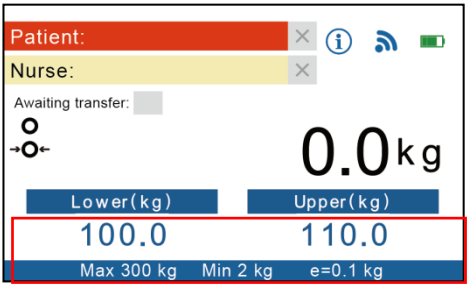
2. Enter height using numeral keys (ex: to input 170 cm, press 1-7-0-0). Press **[CLEAR]** key to re-input.
3. After inputting height, press **[Enter]** to confirm.
4. Proceed to weigh subject as usual. Indicator will display weight, height, and BMI.
5. To transfer results, ensure that HOLD is active, and press **[Transfer]** button to send results wirelessly. If device is not currently connected, results will temporarily be stored in device memory (number of records saved indicated by 'Awaiting transfer'). After transfer is complete, number will revert to "0"

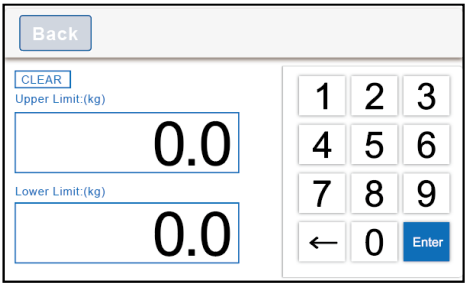
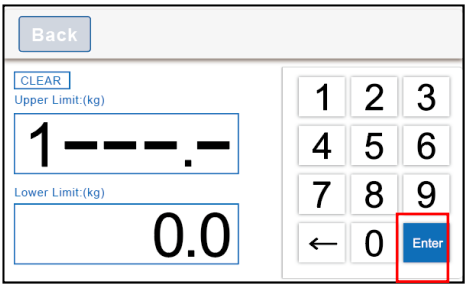
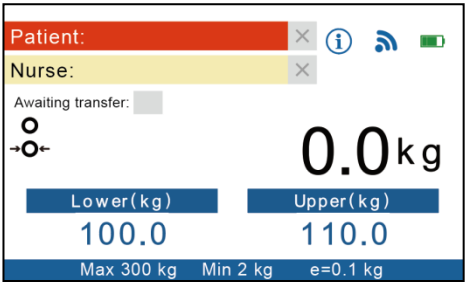
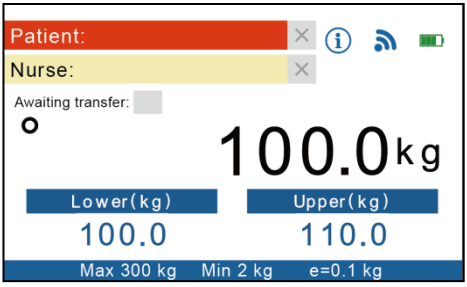
Category	BMI (kg/m^2)	Risk of obesity-related disease
Under	< 18.5	Low
Normal	18.5-24.9	Average
Over	24.9-29.9	Slightly Increased
Obese I	30.0-34.9	Increased
Obese II	35.0-39.9	High
Obese III	> 40	Very High

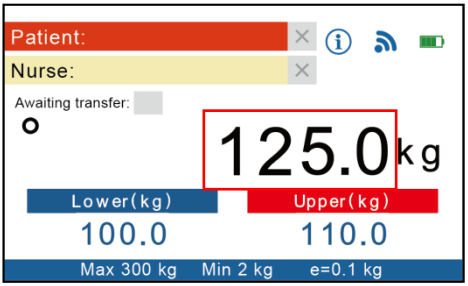
(World Health Organization adult BMI standards)

E. Weight Tracking & Alarm

Prepare bed; place pillows, blankets, and any other objects affecting weight onto bed. Turn on device before pushing bed onto weight bridges.

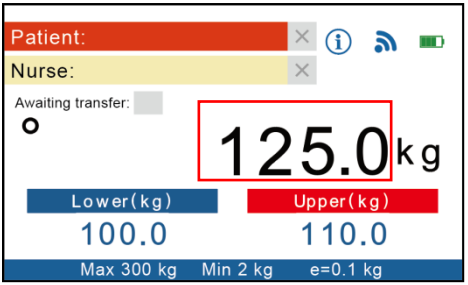
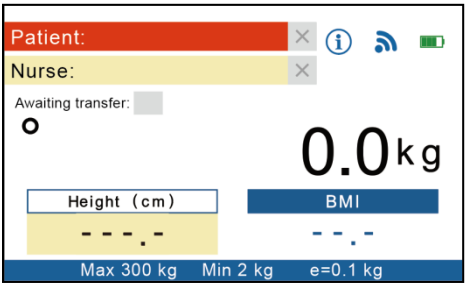
DESCRIPTION	EXAMPLE
Push bed onto platform. Weight of bed will be displayed on screen	
Press **[PRE-TARE]** key to deduct bed weight. "0.0 kg" will be displayed on screen	
Press the "0.0" (marked in the red frame) to activate "Weight Tracking & Alarm" function	
"Lower" and "Upper" will appear at the bottom of the screen. Press the numbers (or anywhere in the red frame) to change the Weight Tracking & Alarm range. **NOTE**: Device will save previous settings	

(Setting page for setting Lower and Upper limit)	
Press the number in either "Upper Limit" or "Lower Limit", and use the keypad on the right to input weight. Press **[Enter]** key to save.	
After saving, device will automatically return to start screen, ready to begin weight measurement.	
When patient lies on bed, device will automatically detect if weight exceeds Lower or Upper limit.	

If result exceeds limit, marker will turn red, and beep every 2 seconds. **NOTE**: Press the weight result (125.0 kg in example) to cancel "Weight Tracking & Alarm" mode.	

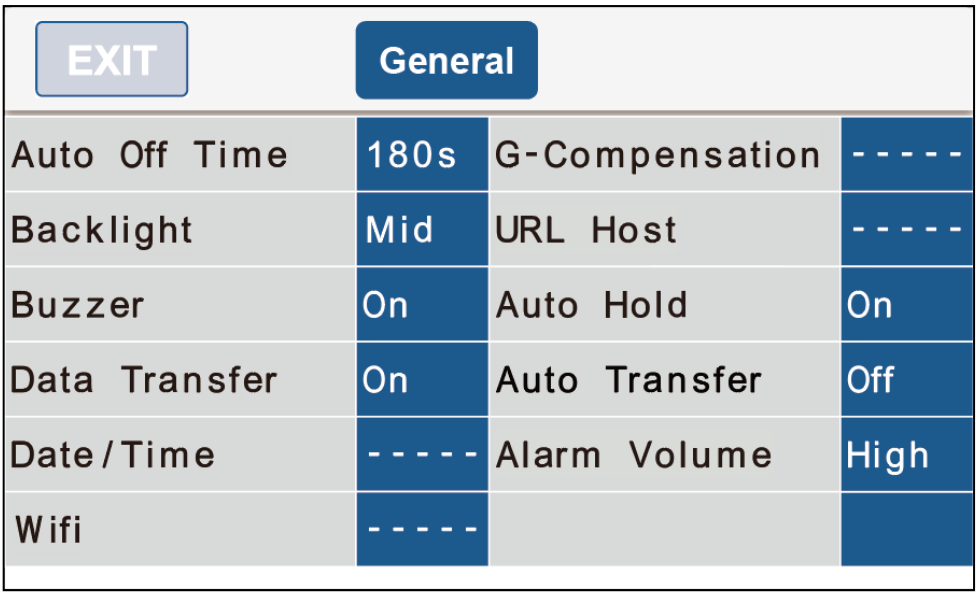
*__NOTE:__ If the Weight Tracking Function is activated, the original subject's weight will be saved in memory. This function can be activated only after the bed has been pushed onto the weight bridges, and the subject is lying down on the bed.

**__NOTE:__ The weight change range starts from 500g/-500g, and can be increased/decreased by increments of 100g.

DESCRIPTION	EXAMPLE
Press the weight result (125.0 kg in example) to cancel "Weight Tracking & Alarm" mode and return to start screen	 

VII. Device Setup

Press and hold **[TARE/ZERO]** key for 6 seconds to enter General Setting mode.



Press menu options on the touchscreen to adjust settings.

Auto Off Time: Instruct device to shut off automatically after a certain period of time.

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

Backlight: adjust backlight brightness.

Options: Low / Mid / High

Buzzer: When function is turned on, beeping noise will be made when: indicator is turned on, keys are pressed, and weight is stable.

Options: Enable / Disable

Data Transfer: If enabled, all data fields (patient ID, weight, height) need to be completed to transfer data. If fields are incomplete (ex: only weight, no height or ID), data will not be transferred.

Options: Enable / Disable

Date/Time: Set device time. (Format: YYYY/MM/DD HH:M)

WiFi Settings: Send results via direct transfer or via network (set Access Point if selected)

G-Compensation: Authorized distributor can adjust gravity compensation value (password required)

Auto Hold: Determine if hold function will be automatically activated on start-up

Auto Transfer: Determine if results will be automatically transferred after measurement completion

Alarm Volume: Volume of Weight Tracking alarm when weight exceeds limit

VIII. Connecting scale to receiving device

The scale is designed to transfer results wireless to receiving device. Please consult instruction manual for receiving device.

Connection directly to Electronic Medical System should be conducted by qualified distributors/administrators only.

IX. Troubleshooting

Before contacting your local Charder distributor for repair service, we recommend considering the following troubleshooting procedures:

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 power adapter is plugged into the device properly. Check if power adapter is plugged into mains properly

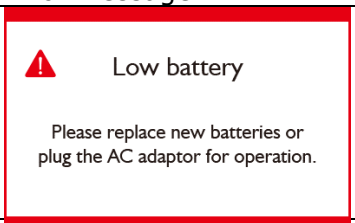
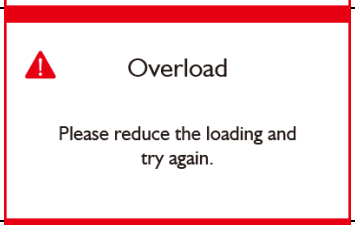
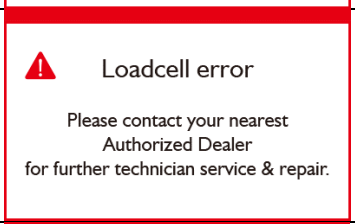
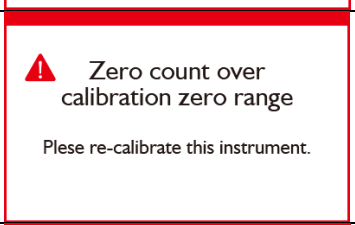
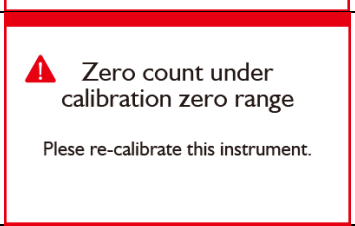
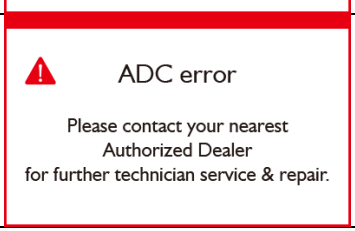
2. Indicator showing "0000" ZERO SPAN out of range

- Interference due to factors such as RF disturbance or ground vibration. Relocate device to location without interference and try again
- Unstable platform feet - adjust platform feet according to bubble level indication (clockwise to retract, counter-clockwise to extend) 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

3. Connection failure for data transmission to PC or printer

- Ensure wires are connected correctly between indicator and PC or printer
- Ensure printer is supplied with power. Ensure PC software is set up properly as indicated in this manual

Error Messages

Error Message	Action
	Please charge battery using adapter, or replace battery
	Maximum weight exceeded. Reduce weight on platform before attempting measurement
	If problem persists, please contact distributor
	Re-calibration may be required. If problem persists, please contact distributor
	Re-calibration may be required. If problem persists, please contact distributor
	If problem persists, please contact distributor

X. Product Specifications

A. Device Information

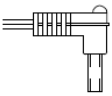
Model		MS6080
Display		DP4800
Weight Measurement	Capacity	300kg x 0.1kg, 300-600kg x 0.2kg
	Accuracy	±2e
	LCD Screen	Color LCD touchscreen
Dimensions	Overall	1256(W) x 366(D) x 61.5(H) mm
	Weighing Area	1000(W) x 160(D)
Device Weight		11.4 kg (each weighing bridge)
Key Functions		Power, Tare/Zero, Hold, Memory, BMI, Pre-Tare
Data Transmission		USB, Wireless **NOTE:** Device should be connected to network by qualified distributors only.
Power Supply		Rechargeable battery pack / Power Adapter
Operation Environment		+5℃~+35℃ 15% / 85% RH 700 hPa ~1060 hPa
Standard Accessories		User manual x 1 Weighing bridge x 2 Connecting wirex1 Power Adapter x1
Optional Accessories		Thermal Printer

B. Power Adapter Standards

Warning

Only the original adapter should be used with the device. Using an adapter other than the one provided by Charder may cause malfunction.

Amp Voltage: 12V 2A
Drawing No: CD-AD-00041

AMP VOLTAGE	DRAWING NO.:	CE APPROVED TYPE NO. / MODEL NO.:	TYPE	Adapter plug
12V 2A	AD-00041	UES24LCP-120200SPA	US	
12V 2A	AD-00041	UES24LCP-120200SPA	EU	
12V 2A	AD-00041	UES24LCP-120200SPA	UK	
12V 2A	AD-00041	UES24LCP-120200SPA	AU	

Notes

XI. 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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