charder®

USER MANUAL
MS6000
Bed Scale

Explanation of Graphic Symbols on Label/Packaging

Symbol	Description	Symbol	Description
⚠	Caution, consult accompanying documents before use	(crossed-out wheeled bin)	Separate collection for waste of electrical and electronic equipment, in accordance with Directive 2002/96/EC
(factory)	Manufacturer of medical device	(factory)	Manufacturing year of medical device
(read manual)	Carefully read user manual before installation and usage, and follow instructions for use.	(figure)	Medical electrical equipment with Type B applied part
REF	Device catalogue number	EC | REP	Authorized representative in the European Community
LOT	Manufacturer's batch or lot number	**MD**	Device is a medical device
SN	Serial number	**UDI**	Unique Device Identifier
$\mathsf{C}\mathsf{E}$ 2460		Device conforms to 93/42/EEC as amended by 2007/47/EC Medical Device Directive. Four digit number refers to Notified Body.	
Ⅲ		Device complies with International Organization of Legal Metrology (Class III) requirements (verified models only)	
$\mathsf{C}\mathsf{E}$ M16 0122		Device complies with EC directives (verified models only) **M**: Conformity label in compliance with Directive 2014/31/EU for non-automatic weighing instruments **16**: Year in which conformity verification was performed and the CE label was applied. (ex: 16=2016) **0122**: Refers to Notified Body for metrology	

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⚠️ I. 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 Use

This device is intended to measure the weight of subjects with limited mobility, for diagnosis of weight-related issues by professionals.

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.
- Expected service life: 5 years.
- 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
■ Device does not require routine maintenance. However, regular checking of accuracy is recommended; frequency to be determined by level of use and state of device. If results are inaccurate, please contact local distributor.

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 MS6000 Bed Scale is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment.		
Emission test	**Compliance**	**Electromagnetic environment-guidance**
RF emissions CISPR 11	Group 1	The device 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 B	The device is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that 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 MS6000 Bed Scale is intended for use in the electromagnetic environment specified below. The customer or the user of the device 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 + 1kV for input/output lines	+ 2kV for power supply lines + 1kV for input/output 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 25 cycles 0% UT for 5 s	0% UT for 0,5 cycle 0% UT for 1 cycle 70% UT(30% dip in UT) for 25 cycles 0% UT for 5 s	Mains power quality should be that of a typical commercial or hospital environment. If the user of the device requires continued operation during power mains interruptions, it is recommended that the device 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 device 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 MS6000 Bed Scale is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that is used in such an environment.			
Immunity test	**IEC 60601 test level**	**Compliance level**	**Electromagnetic environment-guidance**
Conducted RF IEC 61000-4-6 Radiated RF IEC 61000-4-3	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 V/m 80MHz to 2,7 GHz	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 V/m 80MHz to 2,7 GHz	Portable and mobile RF communications equipment should be used no closer to any part of the device 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 2,5 GHz 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 device is used exceeds the applicable RF compliance level above, the device should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the device.

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

Recommended separation distance between portable and mobile RF communications equipment and the MS6000 Bed Scale

The device is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the device can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the device 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 2,5 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.

II. Installation

A. Setting up weight bridges

1. Place weight bridges under bed next to bed castors.
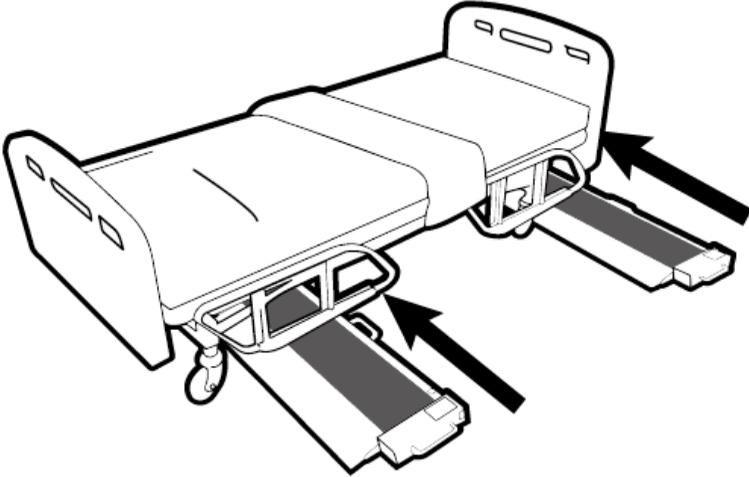
2. Device should be placed on non-slippery, flat, hard, level surface. Make sure bubble level indicator is centered to ensure result accuracy.


Bubble indicator: Level

Not level
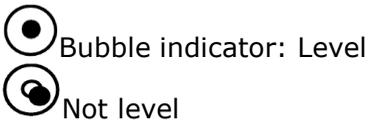
3. Connect weight bridges. All pins should be connected slowly and carefully to avoid damage.

Blue cable should be plugged into blue port; yellow cable should be plugged into yellow port.
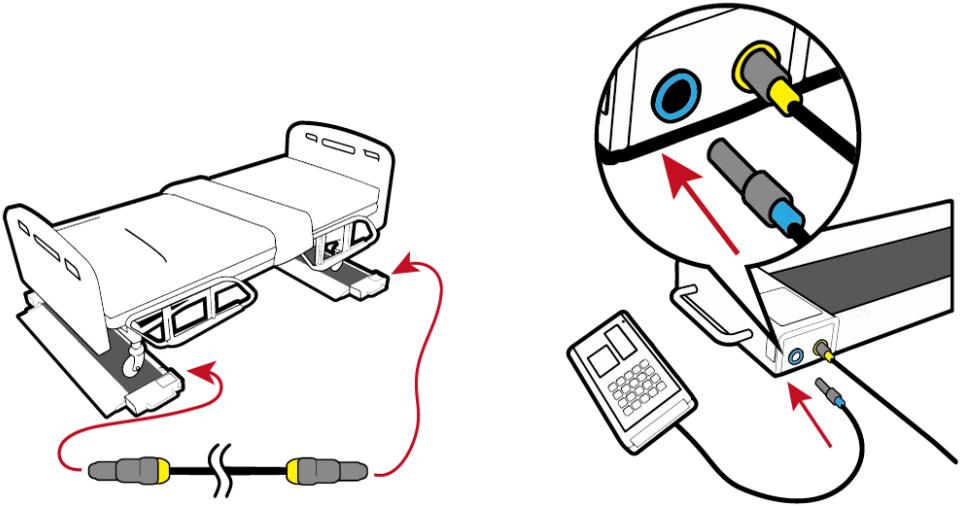
Note: connect both weight bridges to one another using weight bridge connecting wire. Connect indicator to weight bridge 2 (blue port).

4. Turn on device.

5. **After device is turned on**, push bed onto weight bridges. Two people may be needed to complete procedure.
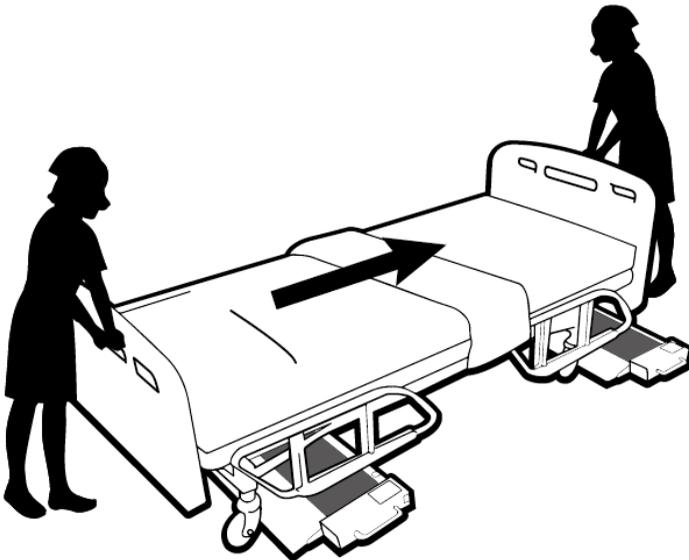
Note: take care not to catch connecting cable under platform or bed.

B. Inserting Batteries

1. Open battery housing cover

2. Accessing batteries
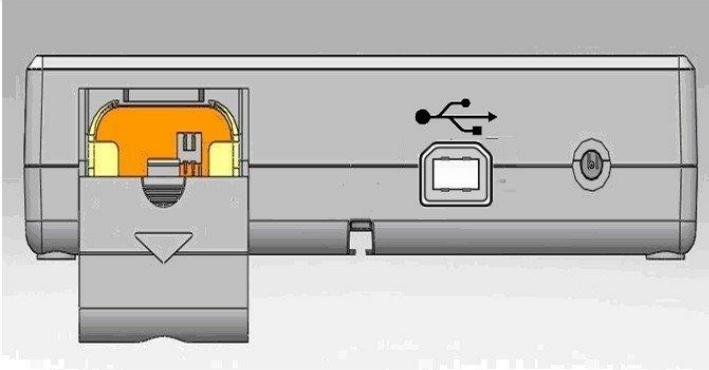
Take out the battery housing
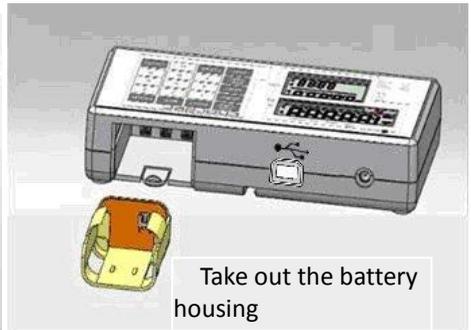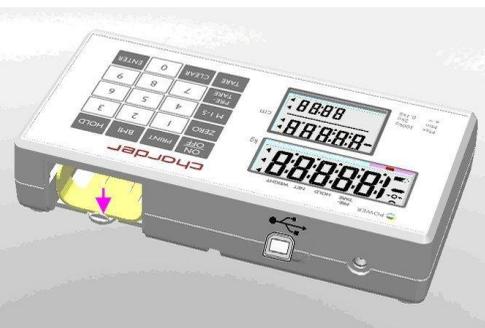
3. Use either rechargeable battery pack, or AA batteries
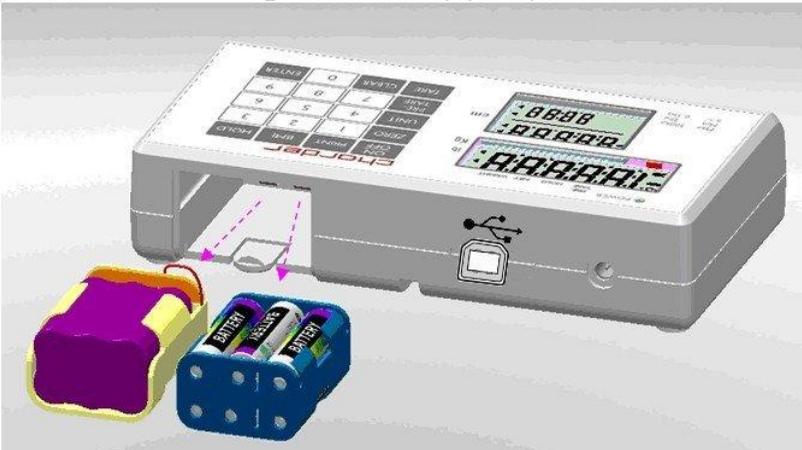
4. Ensure batteries are installed into the housing correctly

Rechargeable Battery Housing

AA-size Battery Housing
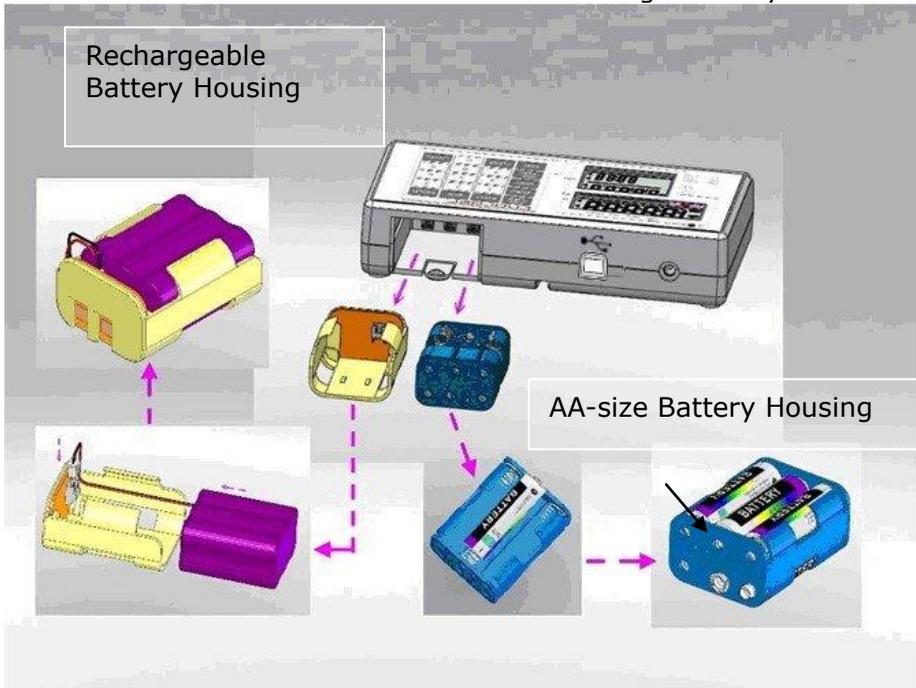
5. Install the battery housing into the compartment, and make sure the right side of housing pin is facing towards inside of the connecting position
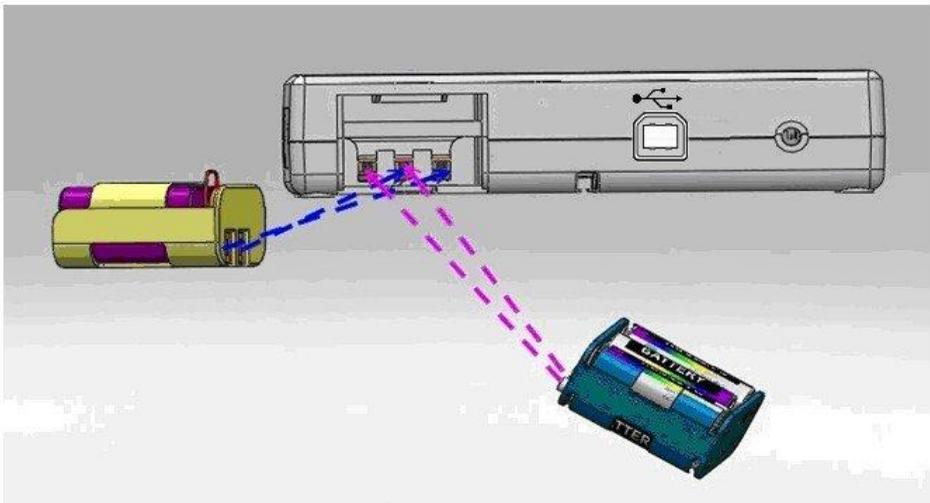
6. Slide back the cover to close the battery housing compartment. Turn on power to confirm that battery is correctly installed.
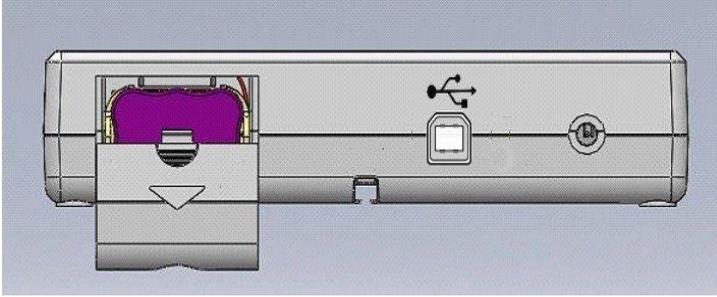

Using Rechargeable Battery (optional)

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.

AC Connector Port
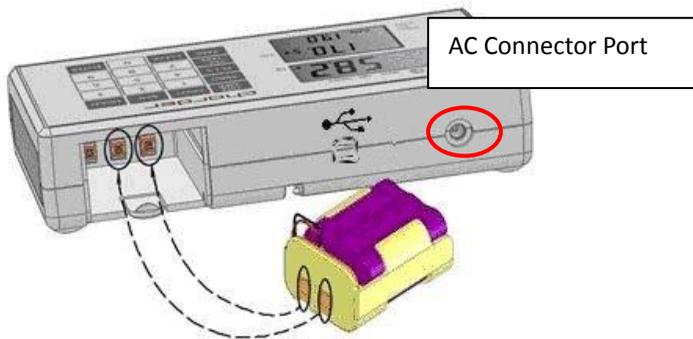
If **Lo** prompt displays on the LCD, please charge battery promptly to avoid battery damage.

D. Using Adapter
1. Connect adapter to indicator before connecting to mains power supply
2. Disconnect adapter from mains power supply before unplugging adapter pin from indicator.

AC Connector Port
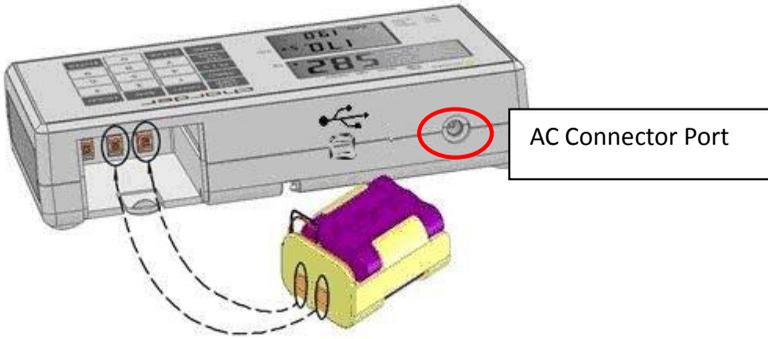
III. Indicator

## A. Indicator and Key Functions

Key Functions

1. **ON/OFF**: Power on or power off

2. **ZERO**: Reset display to 0.0 kg display. Press and hold for 3 seconds to enter device settings.

3. **M1-10**: Save pre-tare values (up to 10)

4. **PRE-TARE**: Pre-tare the known weight of an object (ex: bed) before beginning measurement. Press and hold for 3 seconds to call up pre-tare values

5. **PRINT**: When printer or PC is connected to the scale, press this key to print results

6. **MONITOR WEIGHT**: Track change in patient weight. Press and hold for 3 seconds to enter weight monitor settings.

7. **ALARM**: Turn weight change alarm on/off, adjust volume of alarm. Press and hold for 3 seconds to enter time settings

8. **HOLD/BMI**: Activate hold. Press and hold for 3 seconds to enter BMI mode

9. ![CLEAR button] **CLEAR**: Clear incorrect data input

10. ![ENTER button] **ENTER**: Confirm input

11. ![0 and 9 buttons] **0-9**: For entering digits

B. Display layout

| PRE-TARE | HOLD | NET | WEIGHT |

Stable symbol

Zero symbol

Negative weight

Power

Wireless

kg

Setting increase in weight limit — +Weight

Weight monitor function active — Monitor

Setting decrease in weight limit — -Weight

Weight change alarm active

Height

BMI

Weight Change Limit
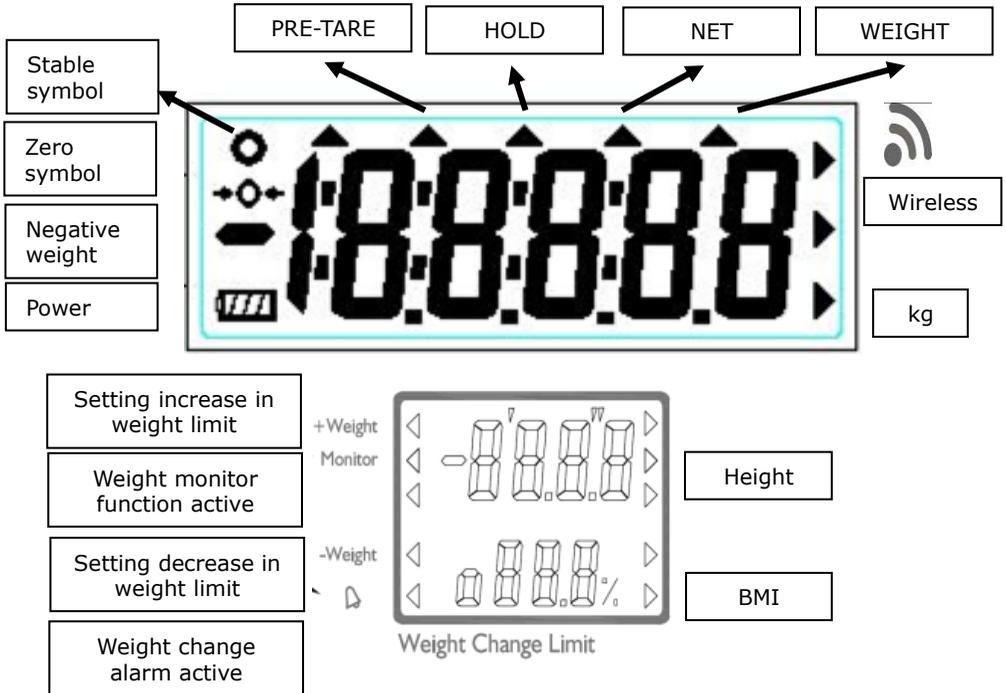
Definitions
Stable symbol: Indicates that weight is stable.
Zero symbol: Weight is at zero
Negative weight: Weight under zero.
Power: Device power level.

| 100% | 75% | 50% | 25% | Charge or replace battery | Insufficient power |

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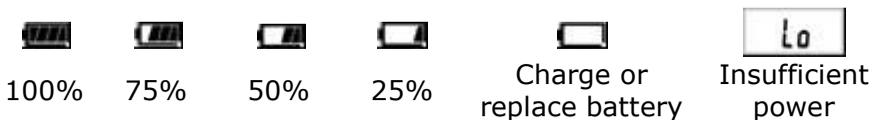
IV. Using Device

A. Performing measurement

Install weight bridges under the bed and connect all wires.

Switch on the device using ON/OFF key. The device will automatically perform self-calibration, displaying software version. Once "0.00 kg" appears on indicator, device is ready for measurement.

Note: If "0.00 kg" does not display on indicator, press ZERO key to zero the device.

User can either select pre-tare bed weight, or deduct weight of bed at point of measurement.

Using pre-tare bed weight (used when subject is already in bed):

|	
1. Recall previously stored Pre-Tare value (bed weight) from device memory by pressing and holding M1-10 key for 3 seconds. Indicator will display pre-tare value M1 first. The pre-tare value will flash. 2. Press numeral keys 0~9 to select pre-tare value. Press ENTER key to confirm selection. (for instructions on how to set Pre-Tare, please refer to **Setting and Recalling Pre-Tare**. Scale will deduct weight of bed, and minus (-) sign will appear in front of Pre-Tare value. 3. Push bed (with subject) onto weight bridges. Conduct measurement.	
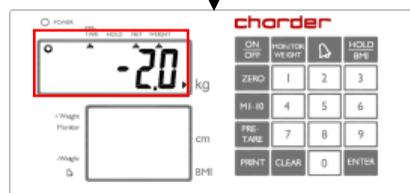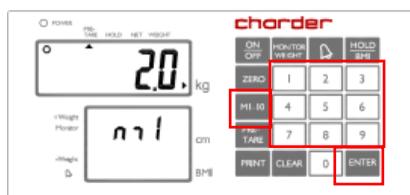
**Deduct weight of bed at point of measurement:**

1. Push bed (without subject) onto weight bridges. 2. Press ![PRE-TARE] key after stable symbol appears on indicator. Display will indicate "0.00 kg". 3. Guide subject to lie down upon bed. Conduct measurement. 4. To clear tare value, remove bed from weight bridges, and press ![PRE-TARE] key.	
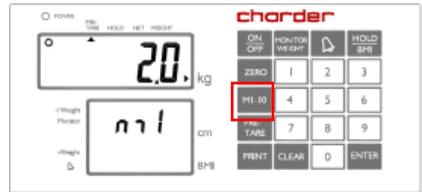
Note: If total weight exceeds scale capacity (includes tare), indicator will display "Err" prompt due to overload.

If subject's weight has difficulty stabilizing, the Hold function can be used.

B. Hold

The hold function determines average weight, designed to be used if subject's weight will not stabilize (ex: an active child).

Note: if fluctuation is too severe, average weight determination will be difficult and hold may not function correctly

1. After recalling pre-tare weight (bed weight) from memory, scale will deduct bed weight and (-) will appear in front of weight.
2. Push bed onto weight bridges.

3. Press the ![HOLD BMI] key. "HOLD" will be displayed on the indicator.
4. After a few seconds, the average weight will be displayed on the indicator.

5. To release the locked weight, press the ![HOLD BMI] key again to return to the device to normal mode.

Note: Hold function can be activated before or after bed is pushed onto weight bridges.

C. BMI

After weight has been measured, BMI can be calculated.

1. Without removing bed from weight bridges, press and hold the **HOLD BMI** key for 3 seconds to enter BMI mode.	
Display will show last recorded height. Left-most digit will flash. 2. Enter height using numeral keys (ex: 170 cm). Input will automatically move to next digit. Press **CLEAR** key to re-input.	
After inputting height, press **ENTER** to confirm.	
Device will display subject's BMI automatically.	
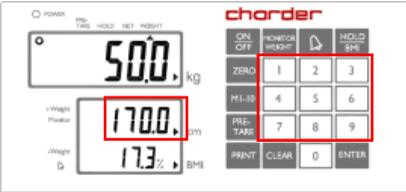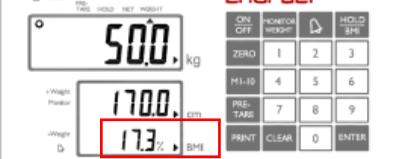
| Category	BMI (kg/m^2)	Risk of obesity-related disease
Under	< 18.5	Low
Normal	18.5-24.9	Average
Over	24.9-29.9	Slightly Increased
Obese I	30.0-34.9	Increased
Obese II	35.0-39.9	High
Obese III	> 40	Very High

(World Health Organization adult BMI standards)

# V. Advanced Operation

A. Pre-Tare

The Pre-Tare function is used to subtract the known weight of a substance prior to weighing. The device can store 10 sets of pre-tare values. Pre-tare values can be stored using two different methods: "Load Weight", or "Input Manually".

After pre-tare weights have been stored, they can be recalled by holding the PRE-TARE key for 3 seconds.

1. Load Weight

DESCRIPTION	EXAMPLE
Press M1-10 key after loading weight on the platform; the indicator will display blinking "m" symbol.	
Press numeral key 0 ~ 9 to assign this number with the current pre-tare weight.	
Press ENTER key to store pre-tare weight; the indicator will make a beep sound.	
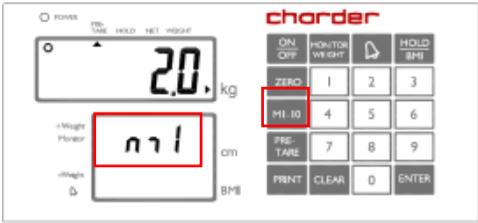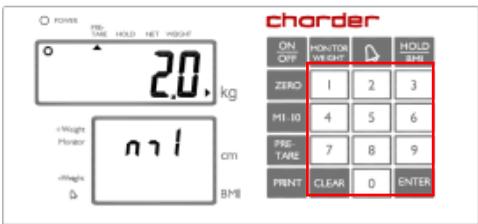
2. Input Manually

DESCRIPTION	EXAMPLE
Press and hold ![PRE-TARE] key for 3 seconds. Left-most digit will begin blinking. If no further action is taken within 6 seconds, indicator will return to normal mode	
While digit is blinking: 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. Press ![ENTER] key to confirm the pre-tare weight.	
Indicator will display minus sign to the left of pre-tare weight value.	
To save this pre-tare weight value in memory: Press ![M1-10] key; the blinking "m" symbol will appear on the display.	
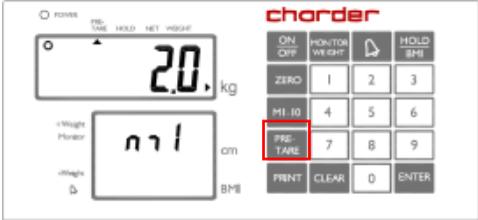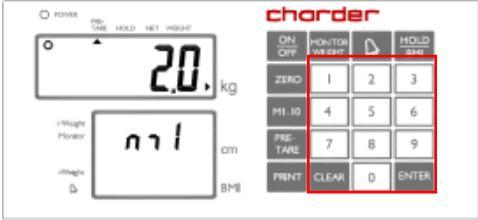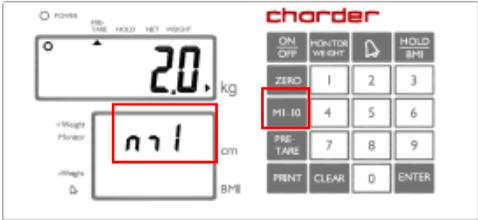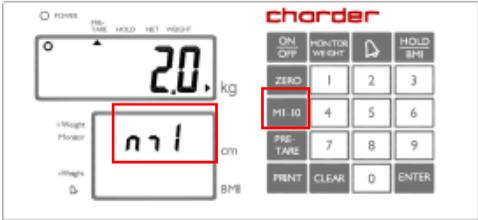
24
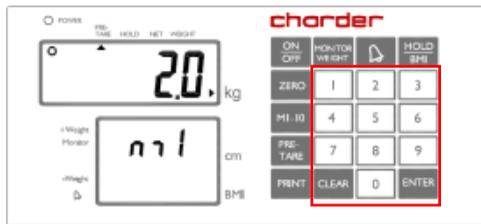
|	
Press numeral key 0 ~ 9 to assign this number with the current pre-tare weight.	
Press **ENTER** key to store pre-tare weight; the indicator will make a beep sound.	

NOTE: Pre-tare weight must be under max capacity, otherwise screen

will show 0.00 after **ENTER** key is pressed, and the operator will have to re-input pre-tare settings.

B. 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.

|	
After bed has been pushed onto weight bridges, display will show total bed weight on upper LCD.	
Press **PRE-TARE** key to tare the weight of the bed, the scale will return to "0.0 kg" reading.	
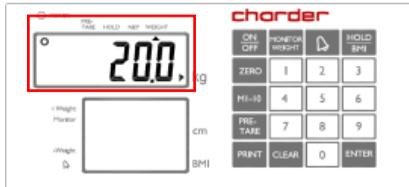
25
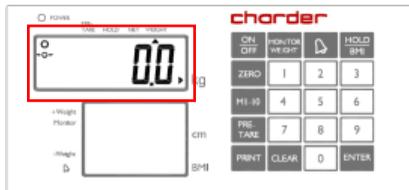
|	
Guide subject to lie upon bed. Display now shows net weight of subject. (*)	
Press and hold **MONITOR WEIGHT** key; the subject's weight will lock, and the middle display will display "0.0". Arrow will point to "+ weight".	
Use numeral keys 0~9 to set the increase in weight limit and press **ENTER** key.	
The lower display will begin blinking, pointing to the (-) weight limit. (**). Use numeral keys 0~9 to set the decrease in weight limit. The minus (-) sign will appear in front of the weight decrease value. After setting the weight decrease value, press the **ENTER** key. (**). Indicator will return to "0.0".	
Press **MONITOR WEIGHT** key to turn on the alarm. The blinking arrow pointing to sign means the Alarm volume is at maximum. To decrease	
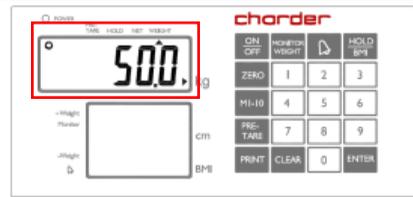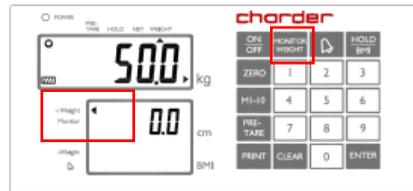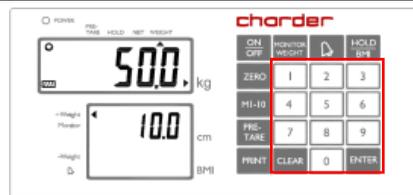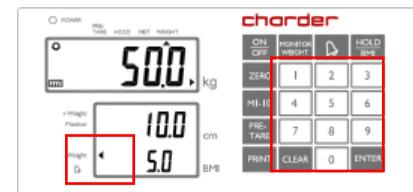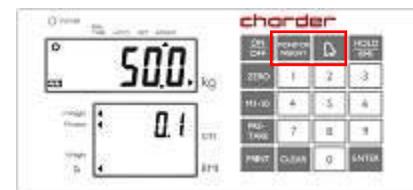
|	
volume level, press ⟨🔔⟩ key again, and the blinking arrow will stop blinking. To turn off the alarm, press the ⟨🔔⟩ key until the arrow disappears.	

*****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.

VI. Device Setup

A. Setting Time & Date

Press and hold 🔔 key for 3 seconds to enter Time Setting mode.

Example: Inputting 2008, Dec 25, 8:00am

2008	**Year Setting** Enter year using numeral keys 0-9. Press 🔔 key once completed to proceed to month & day setting.
12.25	**Month & Day Setting**. Enter month, followed by day using numeral keys 0-9. Ex: December 25th is "12.25". Input 1-2-2-5. Press 🔔 key once completed to proceed to time setting.
08:00	**Time Setting** Enter time (24hr format) using numeral keys 0-9. Ex: 08:00am is input by pressing 0-8-0-0. Press 🔔 key once completed to confirm time settings and proceed to confirmation.
2008 ⇨ **12.25** ⇨ **08:00**	Device will display new time and date settings, cycling between year, month & day, and time. YYYY→MM.DD→:HH:MM Press 🔔 key to return to normal weighing mode.

B. Device Setup

When the device is switched on, press and hold the [ZERO] key for about 3 seconds, until the display shows the "SETUP", followed by "A.OFF" (first option in setting menu).

In device setup:

[PRE-TARE] to toggle next menu option

[ZERO] to toggle previous menu option

[HOLD BMI] to confirm selection

A.OFF

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

Press [HOLD BMI] to toggle between options (120 sec / 180 sec / 240 sec / 300 sec / off), and [PRE-TARE] to confirm selection.

bUrr

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

Press [HOLD BMI] to toggle between on/off, and [PRE-TARE] to confirm selection.
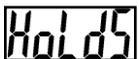
HoldS

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

Press [HOLD BMI] to toggle between on/off, and [PRE-TARE] to confirm selection.

b͟l͟u͟E͟t͟

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

Press ▢ HOLD BMI to toggle between on/off, and ▢ PRE-TARE to confirm selection.

u͟i͟F͟i͟

Wi-Fi (optional): If device has Wi-Fi module installed, Wi-Fi function can be turned on or off.

Press ▢ HOLD BMI to toggle between on/off, and ▢ PRE-TARE to confirm selection.

u͟P͟5͟E͟t͟

Wi-Fi Setting (optional): If device has Wi-Fi module installed, this option will appear.

Press ▢ HOLD BMI to toggle between on/off, and ▢ PRE-TARE to confirm selection.

VII. Setup USB Connection to PC

For successful connection, PC hardware connected to device must be compatible with USB 2.0 or above. Operators should select a USB cable length that is most suitable to the operating environment.

1. Charder Smart Data Manager can be used to connect the device to a PC. The software program can be downloaded from the Charder website:

[LINK URL] https://www.chardermedical.com/download.htm

2. Connect USB cable to device indicator and PC. Follow installation instructions.

Program Setup
1. After installation of Charder Smart Data Manager is complete, software will automatically search for COM port. Press [**Connect**]. Once connected, **[Connect]** button will change to **[Disconnect]**.

Conducting Measurement

1. Input subject's first name, last name, patient ID, date of birth (DD/MM/YYYY), gender, and height (for BMI calculation) into software if needed. Press **[Clear]** to clear all input.

NOTE: information can also be input after weight measurement.

2. Conduct measurement. If **[Auto]** is selected, results will be transmitted from device to software automatically and displayed on the left of screen. If **[Manual]** is selected, user must press "Collect".

Saving & Printing Results

1. Press **[Save as]** to save measurement results as .csv file on PC. Default file name is same as user ID. (ex: 20190201.csv) To track changes and multiple measurements for the same subject, we recommend not changing the default file name.

2. Result example:

	A	B	C	D	E	F	G	H	I	J
1	Patient ID	First Name	Last Name	Date of Bi	Gender	Gross Weig	Tare Weigh	Net Weight	Height	BMI
2	20190201	Jane	Doe	31/12/1965	Male	72.4 kg	0.0 kg	72.4 kg	167.0 cm	26
3										
4										
5										

If previous results were saved in "20190201.csv", new results also need to be saved as "20190201.csv" (overwriting old file) in order to save multiple results for the same subject.

	A	B	C	D	E	F	G	H	I	J
1	Patient ID	First Name	Last Name	Date of Bi	Gender	Gross Weig	Tare Weigh	Net Weight	Height	BMI
2	20190201	Jane	Doe	31/12/1965	Male	72.4 kg	0.0 kg	72.4 kg	167.0 cm	26
3	20190201	Jane	Doe	31/12/1965	Male	75.2 kg	0.0 kg	75.2 kg	167.0 cm	27
4										

Results will be saved in chronological order of measurement.

3. Press the printer icon to print out result using a printer connected to the PC.
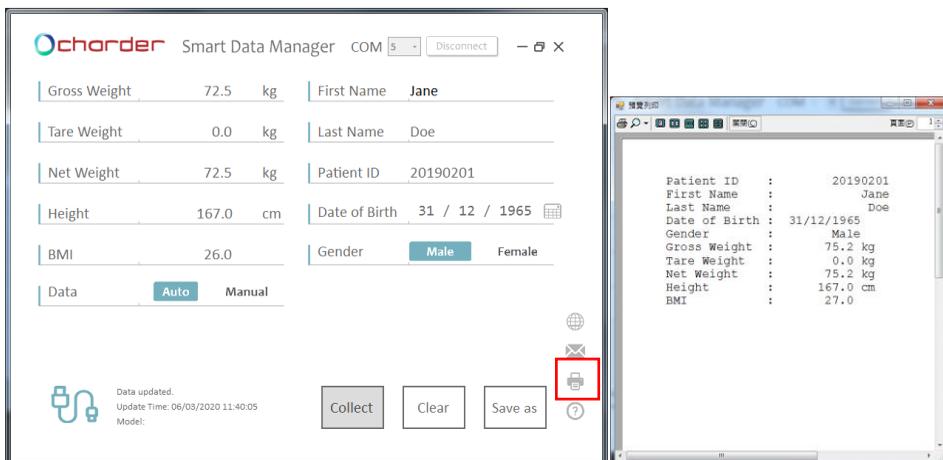
VIII. Wireless Connection

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

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 level according to bubble level indicator 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 cables 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

Distributor support required

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

1. Device will not power on
- Faulty on/off key
- Broken or damaged wires causing short circuit or faulty connection
- Safety fuse burnout
- Faulty Adapter

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

Error Messages

Error Message	Reason	Action
Lo	**Low battery warning** Voltage of battery is too low to operate device	Replace batteries, or plug in AC adapter
Err	**Overload** Total load exceeds device's maximum capacity	Reduce weight on measurement platform and try again
Err.H	**Counting Error (too high)** Signal from loadcells too high	Error normally caused by faulty loadcell or wiring. Please contact distributor
Err.L	**Counting Error (too low)** Signal from loadcells too low	Error normally caused by faulty loadcell or wiring. Please contact distributor
00000	Zero count over calibration zero range +10% while power on	Re-calibration required. Please contact distributor
00000	Zero count under calibration zero range -10% while power on	Re-calibration required. Please contact distributor
Err.P	**Program Error** Fault with device software	Error normally caused by faulty loadcell or wiring. Please contact distributor
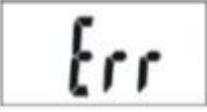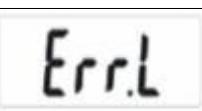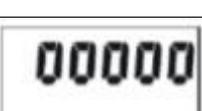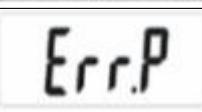
X. Product Specifications

Model	MS6000	
Display	DP3710	
Weight Measurement	**Capacity**	300 kg x 0.1 kg, 300-600 kg x 0.2 kg
	Accuracy	±1.5e
	OIML	Class III
	LCD Screen	1.0-inch LCD screen (5 1/2 digits)
Dimensions	**Overall**	1256(W) x 230(D) x 61(H) mm
	Weighing Area	1000(W) x 160(D)
Device Weight		11.4 kg (each weighing bridge)
Key Functions		On/Off, Zero, Hold/BMI, Print, Pre-Tare, Clear, Enter, M1-10, Monitor Weight, Alarm, 0~9
Data Transmission		USB, Wireless Module (optional) **NOTE**: Device should be connected to network by qualified distributors only
Power Supply		Rechargeable battery pack (optional) or 6 AA batteries / Power adapter
Operation Temperature & Humidity		0℃~40℃ 15% / 85% RH
Standard Accessories		User manual*1, Weighing bridge*2, Connecting cable*1, USB transfer cable*1, Bracket set for wall mount*1, Power adapter*1
Optional Accessories		Thermal Printer

⚠️ Warning

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

AMP VOLTAGE	DRAWING NO.	CE APPROVED TYPE NO. / MODEL NO.	TYPE	Adapter plug
12V 2A	AD-8058(AD-0521)	UE24WU-120200SPA	US	90 - degree
	AD-8057(AD-0520)	UE24WV-120200SPA	EU	
	AD-8056(AD-0519)	UE24WB-120200SPA	UK	
	AD-8074(AD-0534)	UE24W4-120200SPAS	AU	
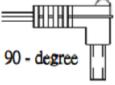
Notes

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XI. Declaration of Conformity

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

$C\,\epsilon$ 2460	93/42/EEC as amended by 2007/47/EC Medical Device Directive
$C\,\epsilon$ $\boxed{M}$ year	2014/31/EU Non-automatic Weighing Instruments Directive

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

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 (R.O.C.)

CD-IN-00014 REV 007 04/2021