

Bed Scale

USER MANUAL MS6001



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	
\triangle	Caution, consult accompanying documents before use	
X	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	
е	Verification Scale Interval. Value expressed in units of mass. Used to classification and verification of an instrument.	
€ 2460	Device conforms to (EU) 2017/745 Regulation on Medical Devices. Four-digit number is identifier for medical device Notified Body	

C€ <u>M20</u> 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)
À→文	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
FC	Device conforms to U.S. Federal Communications Commission regulations
발 M 208506	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 UK	Device complies with all UK applicable product legislation
$\bigcirc - \textcircled{\bullet} - \textcircled{\oplus}$	Device's polarity of power.

[&]quot;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.

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 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 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
Harmonic emissions IEC 61000-3-2	Class A	power supply network which supplies buildings used for domestic purposes.
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.

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	±8 kV contact	±8 kV contact	Floors should be wood,	
discharge(ESD)	±2 kV, ±4 kV,	±2 kV, ±4 kV,	concrete or ceramic tile. If	
IEC 61000-4-2	±8 kV, ±15 kV air	±8 kV, ±15 kV air	floors are covered with	
		,	synthetic material, the relative	
			humidity should be at least 30%	
Electrical fast	L Ok\/ for	L Ok\/ for		
transient/burst	± 2kV for power supply	± 2kV for power supply	Mains power quality should be that of a typical	
IEC 61000-4-4	lines	lines	commercial or hospital	
120 01000-4-4	iiies	IIICS	environment.	
Surge IEC	+ 1kV line(s) to line(s)	+ 1kV line(s) to line(s)	Mains power quality should	
61000-4-5	+ 2kV line(s) to earth	<u>+</u> 2kV line(s) to earth	be that of a typical	
			commercial or	
			hospital environment.	
Voltage Dips,	<u>0% UT for 0,5</u>	0% UT for 0,5 cycle	Mains power quality should	
short interruptions	cycle	0% UT for 1 cycle	be that of a typical	
and voltage variations on	0% UT for 1 cycle	700/ LIT/200/ din in	commercial or hospital environment. If the user of	
power supply input	70% UT(30% dip in	70% UT(30% dip in UT) for 25cycles	the product requires	
lines	UT) for 25cycles	01/101 23Cycles	continued operation during	
IEC 61000-4-11	<u>01)101 200y0100</u>	0% UT for 5 s	power mains interruptions, it	
	0% UT for 5 s	<u> </u>	is recommended that the	
			product be powered from an	
			uninterruptible power supply	
			or a battery.	
Power	<u>30 A/m</u>	30 A/m	The product power	
frequency			frequency magnetic	
(50, 60 Hz)			fields should be at	
magnetic field			levels characteristic of	
IEC 61000-4-8			a typical location in a	
			typical commercial or	
NOTE UT: (. "	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.

	IEC 60601 test	Compliance	Electromagnetic
Immunity test	level	level	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	80 % AM at 1	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.
D 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.7//	kHz	Recommended separation distance:
Radiated RF IEC 61000-4-3	3 V/m 80MHz to 2,7 GHz	3 V/m 80MHz to 2,7 GHz	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	Separation distance according to frequency of transmitter			
output power of transmitter	m			
W	150 kHz to 80 MHz	80 MHz to 800 MHz	800 MHz to 2,7 GHz	
	d =1,2√ <i>P</i>	d =1,2√ <i>P</i>	d =2,3√ <i>P</i>	
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.

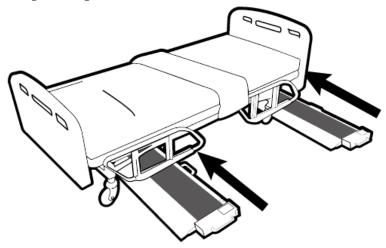
NOTE1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

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.

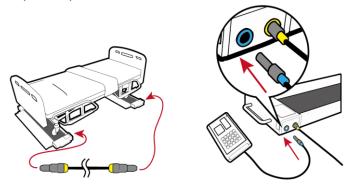
Bubble indicator: Level

Not level



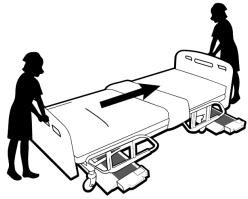
3. Connect weight bridges. All pins should be connected slowly and carefully to avoid damage.

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).

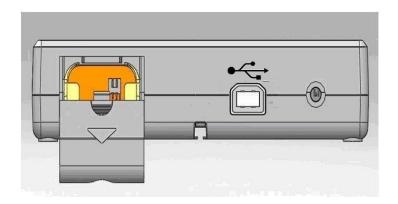
- 4. Turn on device.
- 5. **After device is turned on**, push bed onto weight bridges. Two people may be needed to complete procedure.



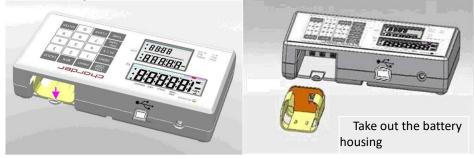
Note: take care not to catch connecting cable under platform or bed.

B. Inserting Batteries

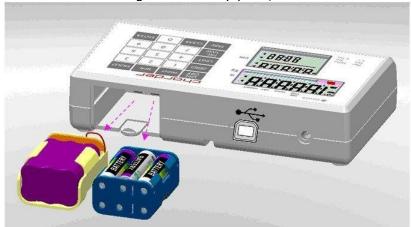
1. Open battery housing cover



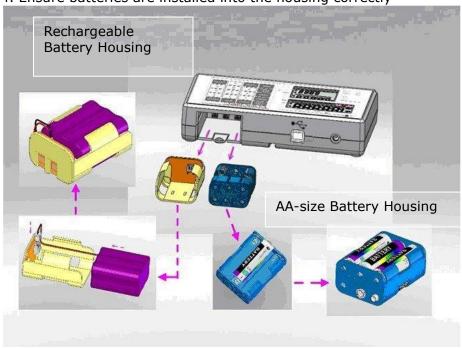
2. Accessing batteries



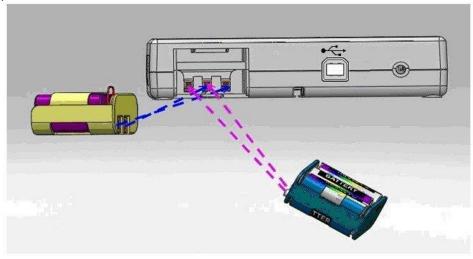
3. Use either rechargeable battery pack, or AA batteries



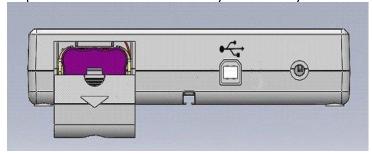
4. Ensure batteries are installed into the housing correctly



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.

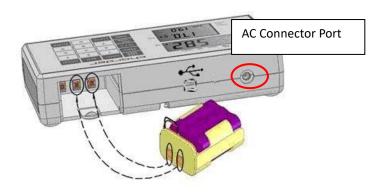


C. Using Rechargeable Battery (optional)

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.

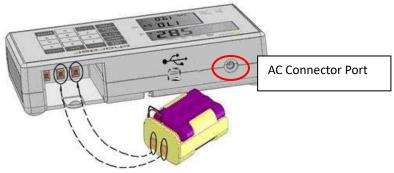
Ensure rechargeable battery housing is installed and inserted properly into the compartment.



If 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.



V. Indicator

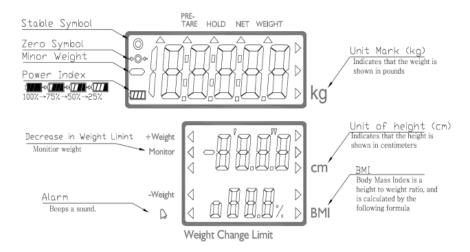
A. Indicator and Key Functions



Key Function

ON/OFF	Power on or power off.
ZERO	Reset display to 0.0 kg display (can be used if within ±2% of full capacity). Press and hold for 3 seconds to enter device settings.
M1-10	Save pre-tare values (up to 10)
PRE-TARE	Pre-tare the known weight of an object (ex: clothing) before beginning measurement.
PRINT	When printer or PC is connected to the scale, press this key to print results
MONITOR WEIGHT	Track change in patient weight
ALARM	Turn weight change alarm on/off, adjust volume of alarm
HOLD/BMI	Determine stable weighing value - used when weight is unstable. Press and hold for 3 seconds to enter BMI mode.
0-9	For entering digits.
CLEAR	Clear incorrect data input.
ENTER	Confirm input.

B. Display layout

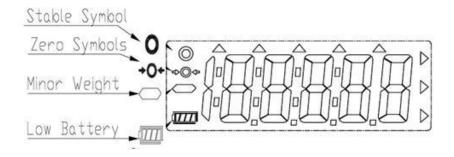


Definitions

Stable symbol: Indicates that weight is stable.

Zero symbol: Weight is at zero **Minor weight**: Weight under zero.

Low battery: Battery needs to be charged or replaced.



VI. 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. This function can be used for weight within $\pm 2\%$ of full capacity.

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

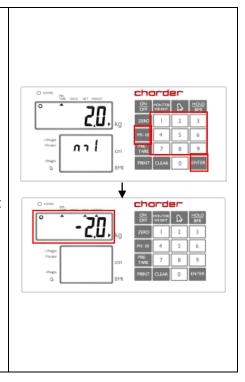
Using pre-tare bed weight (used when subject is already in bed):

- 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**.

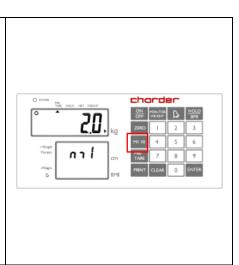
Scale will deduct weight of bed, and minus (-) sign will appear in front of Pre-Tare value.

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 (600 kg, including 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]** 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]** 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. If subject is unstable, we recommend pressing using Hold after the bed has been 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.	O POROR TO THE MODE HET MODEL TO THE MODEL THE MODEL TO T
Display will show last recorded	D ENTER
height. Left-most digit will flash. 2. Enter height using numeral keys (ex: 170 cm). Input will automatically move to next digit.	C PORTOR TOTAL PORTOR
Press [CLEAR] key to re-input. After inputting height, press [ENTER] to confirm.	C PODOS NO PODOS POD
Device will display subject's BMI automatically.	C Parish Times Parish Times Parish Times Parish Times Parish Times Tim

Category	BMI (kg/m²)	Risk of obesity-related disease
Under	< 18.5	Low
Normal	18.5-24.9	Average
Over	24.9-29.9	Slightly Increased
Obese I	30.0-34.9	Increased
Obese II	35.0-39.9	High
Obese III	> 40	Very High

(World Health Organization adult BMI standards)

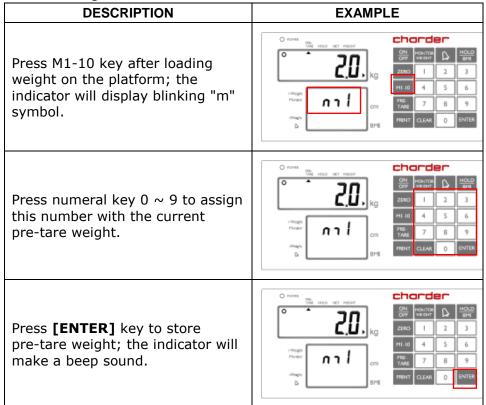
VII. Advanced Operation

A. Pre-Tare

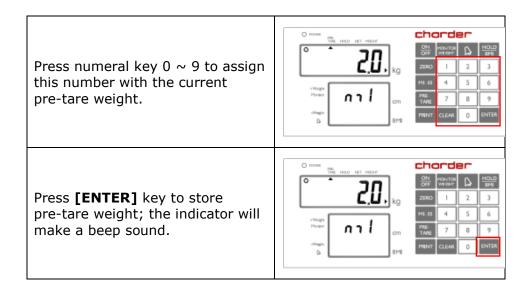
The Pre-Tare function is used to subtract the known weight of a substance prior to weighing. The MS6000 can store 10 sets of pre-tare values. Pre-tare values can be stored using two different methods: "Load Weight", or "Input Manually".

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

1. Load Weight



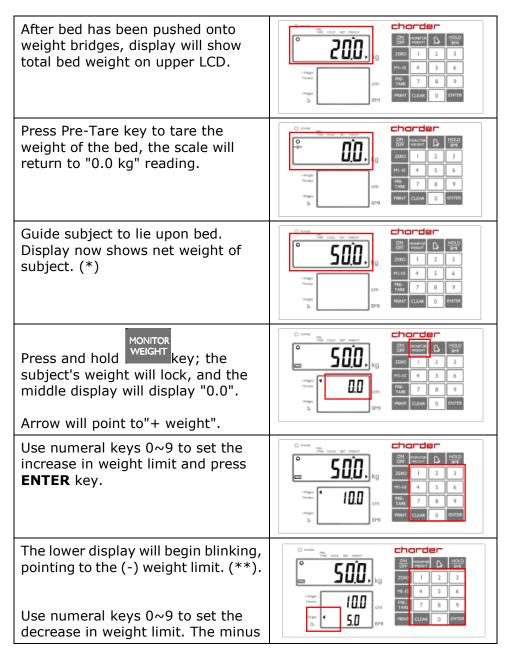
2. Input Manually DESCRIPTION **EXAMPLE** Press and hold [PRE-TARE] key charder for 3 seconds. Left-most digit will begin blinking. nıl If no further action is taken within 6 seconds, indicator will return to normal mode While digit is blinking: Enter pre-tare weight using 0~9 keys. Ex: to pre-tare 5.0 kg of weight, press 0-0-5-0. ורח 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: nıl Press M1-10 key; the blinking "m" symbol will appear on the display.

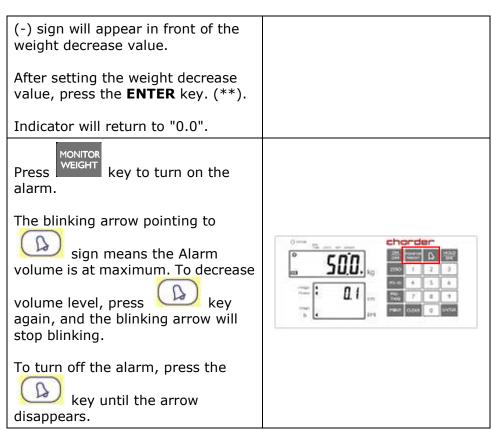


NOTE: Pre-tare weight must be under max capacity, otherwise screen will show 0.00 after **[ENTER]** key is pressed, and the operator will have to re-input pre-tare settings.

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.





^{*}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.

VIII. Device Setup

A. Setting Time & Date

Press and hold keyfor 3 seconds to enter Time Setting mode. Example: Inputting2008, Dec 25, 8:00am

Example: Inputting2006, Dec 25	
	Year Setting
	Enter year using numeral keys
2008	0-9. Press key once
	,
	completed to proceed to month
	& day setting.
	Month& Day Setting.
	Enter month, followed by day
	using numeral keys 0-9.
	,
12.25	Ex: December 25th is "12.25".
ו ורראו	Input 1-2-2-5.
, , , , ,	
	Press key once completed
	to proceed to time setting.
	Time Setting
	Enter time (24hr format) using
	numeral keys 0-9.
	Ex: 08:00am is input by
	pressing 0-8-0-0.
08:00	pressing 0-0-0.
	Press key once completed
	to confirm time settings and
	proceed to confirmation.
	Device will display new time
	and date settings, cycling
	between year, month & day, and
	time.
	ume.
2008	NOON MAN DD
	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



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

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

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



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] key to confirm selection.



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] key to confirm selection



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.



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.



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

Press [HOLD/BMI] to toggle between "Auto" and "PKEY". Press [PRE-TARE] to confirm selection.

If "Auto" is selected, weight measurement will be automatically sent to connected printer or device. If "PKEY" is selected, transfer will occur manually only after **[PRINT]** key is pressed.

IX. 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.

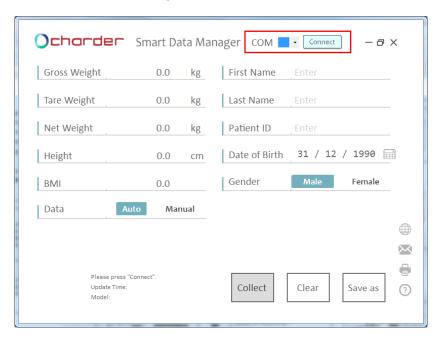
1. Charder Smart Data Manager can be used to connect the device to a PC. The software program can be downloaded from the Charder website:

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

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

Program Setup

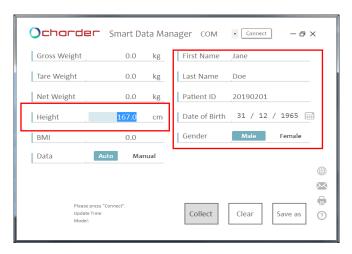
1. After installation of Charder Smart Data Manager is complete, software will automatically search for COM port. Press [Connect]. Once connected, [Connect] button will change to [Disconnect].



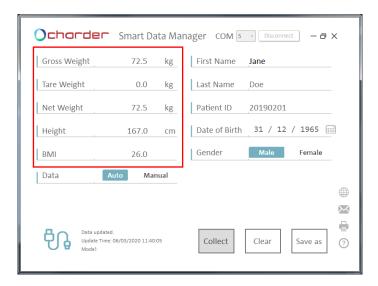
Conducting Measurement

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.

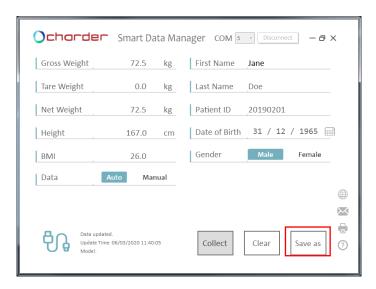


2. Conduct measurement. If **[Auto]** is selected, results will be transmitted from device to software automatically and displayed on the left of screen. If **[Manual]** is selected, user must press "Collect".

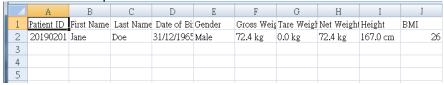


Saving & Printing Results

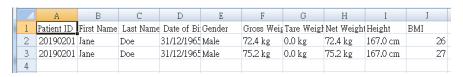
1. Press **[Save as]** to save measurement results as .csv file on PC. Default file name is same as user ID. (ex: 20190201.csv) To track changes and multiple measurements for the same subject, we recommend not changing the default file name.



2. Result example:

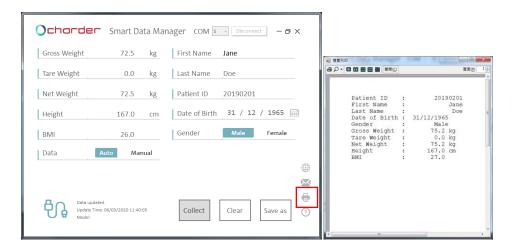


If previous results were saved in "20190201.csv", new results also need to be saved as "20190201.csv" (overwriting old file) in order to save multiple results for the same subject.



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.



X. 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.

XI. Troubleshooting

Product Defects

Charder's warranty is effective for the original purchaser of this device, subject to the terms and conditions listed in the Warranty Program & Return Policy.

- 1. 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.
- 2. 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.

If device is not covered under warranty, a service maintenance charge will apply, plus cost of replacement parts.

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 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

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
ErrL	Counting Error (too low) Signal from loadcells too low	Error normally caused by faulty loadcell or wiring. Please contact distributor
00000	low) Signal from loadcells	by faulty loadcell or wiring. Please contact
	Iow) Signal from loadcells too low Zero count over calibration zero range	by faulty loadcell or wiring. Please contact distributor Re-calibration required. Please

XII. Product Specifications A. Device Information

Model		MS6001	
Display		DP3710	
	Capacity	500kg x 0.1kg / 600kg x 0.1kg	
Weight Measurement	Accuracy	±1.5e	
	LCD Screen	1.0-inch LCD screen (5 1/2 digits)	
	Overall	1256(W) x 230(D) x 61(H) mm	
Dimensions	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 (optional) NOTE: Device should be connected to network by qualified distributors only.	
Power Supply		Rechargeable battery pack (optional) or6 AA batteries / Power adapter	
Operation Environment		0°C∼+40°C 15% / 85% RH 700 hPa ∼1060 hPa	
Optional Accessories		Thermal Printer	
Standard Accessories		User manual x 1 Weighing bridge x 2 Connecting wire x 1 USB cable (B-type) x1 Bracket set for wall mount x1	
		Power Adapter x 1	

B. Power Adapter Standards



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

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		

XIII. Declaration of Conformity

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

C € 2460	(EU) 2017/745 Regulation on Medical Devices
C € 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:



Manufactured by:

