

Wheel chair scale

USER MANUAL MS3830



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.
<u> </u>	Medical electrical device, Type B applied part
<u> </u>	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. Fourdigit number is identifier for medical device Notified Body
C€ M200122	Device complies with EC directives (verified models only)
	\mathbf{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)
A →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
Æ	Device conforms to U.S. Federal Communications Commission regulations
발 M 20 8506	Device complies with UK non-automatic weighing instruments regulations 2016 (verified models only) M: Conformity label in compliance with Non-automatic Weighing instruments Regulations 2016 20: Year in which conformity verification was performed and the UKCA label was applied. (ex: 20=2020) 8506:Identifier for metrology approved body
UK	Device complies with all UK applicable product legislation
$\bigcirc - \bullet - \oplus$	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.

Patient sitting on wheelchair is pushed onto measurement platform containing digital scale. Device measures weight of wheelchair plus patient using digital scale. By deducting weight of wheelchair 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 wheelchair weight. If wheelchair weighs 20 kg, patients up to 280 kg can be weighed if total capacity of device is 300 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 wheelchair onto measurement platform.

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. Wheel chair scales are an important option for measuring patients. Usage of device is unlikely to result in harm to user or patient.

General Handling

- Device should be placed on stable, flat, solid, non-slippery surface.
- Usage on soft surfaces (ex: carpet) may result in inaccurate results.
- Ensure all parts are properly locked and tightened before operating the device.
- Device is intended to measure one subject at a time.

Safety Instructions

- Batteries should be kept away from children. If swallowed, promptly seek medical assistance.
- 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

Please contact your local Charder distributor for regular maintenance and calibration, regular checking of accuracy is recommended; frequency to be determined by level of use and state of device.

Warranty/Liability

- The period of warranty shall be eighteen (18) months, beginning on the date of purchase. Please retain your receipt as proof of purchase.
- No responsibility shall be accepted for damage caused through any of the following reasons: unsuitable or improper storage or use, incorrect installation or commissioning by the owner or third parties, natural wear and tear, changes or modifications, incorrect or negligent handling, chemical, electrochemical, or electrical interference.
- All maintenance, technical inspections, and repairs should be conducted by an authorized Charder service partner, using original Charder accessories and spare parts. Charder is not liable for any damages arising from improper maintenance or usage.

Disposal

This product is not to be treated as regular household waste, but should be taken to a designated collection points for electronics. Further information should be provided by local waste disposal authorities.



- 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 Guidanceand 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-guid
		ance
RF emissions CISPR 11	Group 1	The product uses RFenergy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class A	The product is suitable for use in all establishments other than domesticand those directly connected to a low voltage
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.

customer or the user of the product should assure that it is used in such an environment.			
Immunity test	IEC 60601	Compliance level	Electromag
	test level		netic
			environmen t-guidance
Electrostatic	±8 kV contact	±8 kV contact	Floors should be
discharge(ES		±2 kV, ±4 kV, ±8	wood, concrete or
D) IEC			ceramic tile. If floors
61000-4-2	kV, ±15 kV air	kV, ±15 kV air	are covered with
01000 4 2			synthetic material, the
			relative humidity
			should be
			at least 30%
Electrical	+ 2kV for	+ 2kV for	Mains power
fast	power supply	power supply	quality should be
transient/bu	lines	lines	that of a typical
rst IEC			commercial or
61000-4-4			hospital
			environment.
Surge IEC	+ 1kV line(s) to line(s)	+ 1kV line(s) to line(s)	Mains power
61000-4-5	+ 2kV line(s) to earth	<u>+</u> 2kV line(s) to earth	quality should be
			that of a typical
			commercial or
			hospital environment.
Voltage Dips, short	<u>0% UT for 0,5</u>	0% UT for 0,5 cycle	Mains power quality
interruptions and	<u>cycle</u>	0% UT for 1 cycle	should be that of a
voltage variations on	0% UT for 1 cycle		typical commercial
power supply input	700/ 117/000/ 1	70% UT(30% dip in	or hospital
lines IEC	70% UT(30% dip	UT) for 25cycles	environment. If the
61000-4-11	in UT) for 25cycles	00/ LIT for 5 o	user of the product
	0% UT for 5 s	<u>0% UT for 5 s</u>	requires continued operation during
	0% 01 101 3 8		power mains
			interruptions, it is
			recommended that
			the product be
			powered from
			anuninterruptible
			power supply or a
			battery.
Power	30 A/m	30 A/m	The product
frequency(50, 60			power
Hz) magnetic			frequency
field IEC			magnetic
61000-4-8			fields should
			be at levels
			characteristic
			of a typical
			location in a
			typical
			commercial or
			hospitalenviro
			nment.
NOTE UT is the a.c. mains voltage prior to application of the testlevel.			

Guidance and manufacturer's declaration-electromagnetic immunity

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

The customer or the user of the product should assure that is used in such and environment.

IEC 60601 test	Compliance	Electromagnetic environment-guidance
3 Vrms 150 KHz to 80 MHz 6 V in ISM bands between 0,15 MHz and 80 MHz	3 Vrms 150 KHz to 80 MHz 6 V in ISM bands between 0,15 MHz and 80 MHz	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.
3 V/m 80MHz to 2,7 GHz	kHz 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. Interference may occur in the vicinity of equipment marked with the following symbol:
	Ievel 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	Ievel

NOTE1 At 80 MHz and 800 MHz, the higher frequency rangeapplies.

NOTE2

Theseguidelinesmaynotapplyinallsituations. Electromagnetic propagation is af fected 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,amateurradio,AMandFMradiobroadcastandTVbroadcastcannotbepredictedtheore ticallywithaccuracy.To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the product is used exceedstheapplicable RF compliance level above, the product should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the product.
- Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3V/m.

Recommended separation distance between portable and mobile RF communications equipment and the product

The product is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the product can help preventelectromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the product as recommended below, according to the maximum output power of the communications equipment.

Rated maximum	Separation distance according to frequency of transmitter m		
output power of transmitter	150 kHz to 80 MHz	80 MHz to 800 MHz $d = 1.2\sqrt{P}$ $\frac{800 \text{ MHz to 2}}{\text{GHz}}$	
W	d =1,2√ <i>P</i>	u = 1,2 17	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

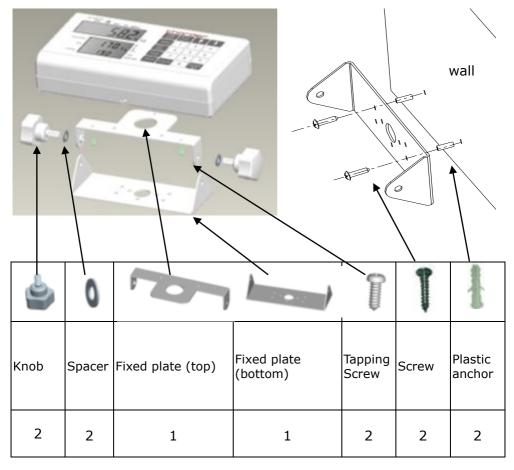
For transmitters rated at a maximum output power not listed above, the recommended separation distance d in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where p is the maximum output power rating of the transmitter in watts (W) according to the transmitter 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.

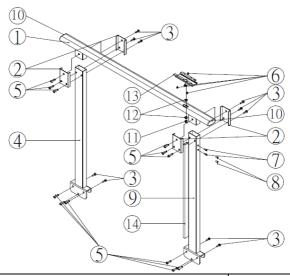
IV. Installation

A. Bracket Assembly



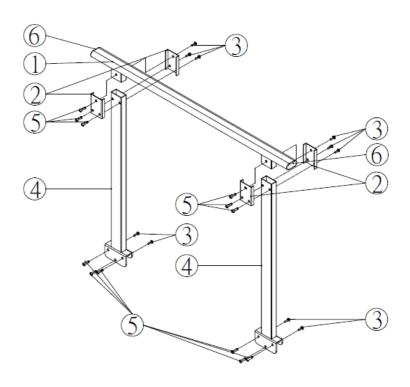
B. Handrail Parts

Parts List - Right Handrail (SM-3461)



NO.	Item	Drawing	Qty.
1.	handrail bar	SS-8300B	1
2.	fixing plate	SS-8311	4
3.	socket button head cap screw	M6-21	10
4.	pole	AM-8173	1
5.	socket button head cap screw nut	ø8-M6*33	12
6.	screw for display set	M4*8	4
7.	screw nut for printer bracket (installed already)	M5-0.8-JB	2
8.	plastic screw (installed already)	M5-0.8*8	2
9.	pole with wiring duct	AM-8173A	1
10.	rubber end cap	SW-8068	2
11.	locking nut	M8*1.25*8	1
12.	bearing	SF-1F-08075	2
13.	bracket	SS-8303	1
14.	wiring duct	TC-2WE 100cm	1
	socket key	=	2

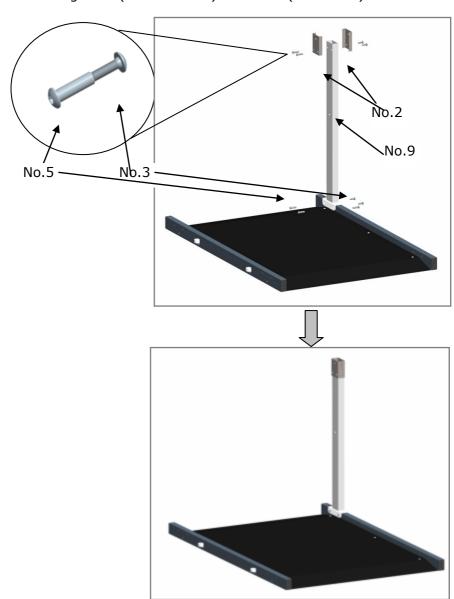
Parts List - Left Handrail (SM-3462)



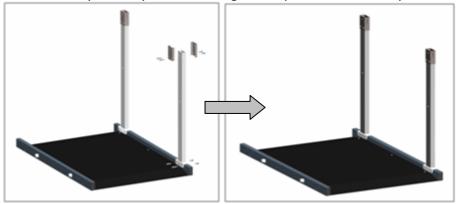
NO.	Item	Drawing	Qty.
1.	handrail bar without screw hole	SS-8300A	1
2.	fixing plate	SS-8311	4
3.	socket button head cap screw	M6-21	10
4.	pole	AM-8173	2
5.	socket button head cap screw nut	ø8-M6*33	12
6.	rubber end cap	SW-8068	2
	socket key	=	2

C. Handrail Assembly

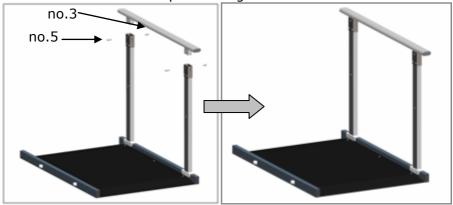
1. Attach No.2 (fixing plate) to No.9 (pole with wiring duct) using No.3 (socket screw) and No.5 (screw nut). Attach No.9 (pole with wiring duct) to platform using No.3 (socket screw) and No.5 (screw nut).



2. Assemble pole on platform using same procedure as Step 1.



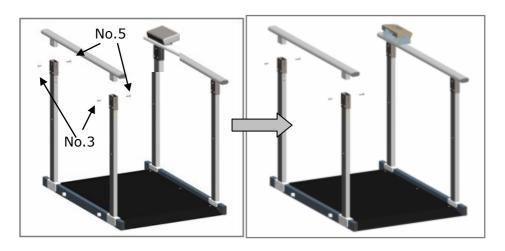
3. Attach handrail bar to poles using No. 5 and No. 3 screws.



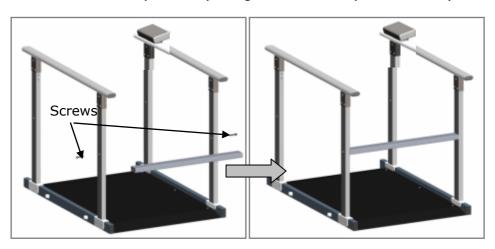
4. Attach third and fourth pole to platform.

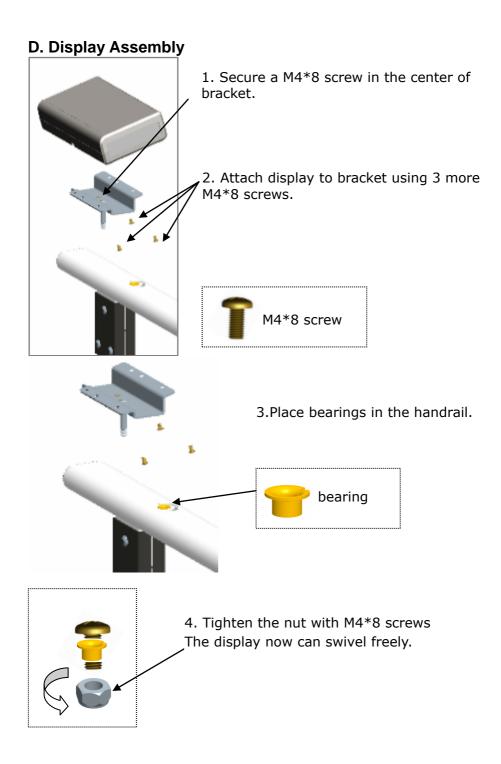


5. Assemble handrail bar



6. Attach cross bar (SS-8444) using No.11 screws (M8-1.25P*45).



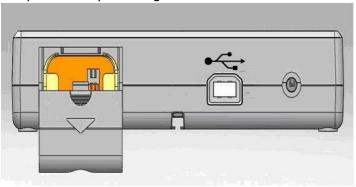


E. Foldable Handrail Assembly (SM-0001)

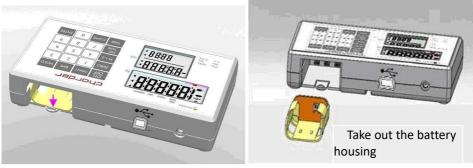
To fold the handrail down, release the locking hook and carefully fold the handrail down.	
The hinge will lock in place, ready for transportation.	
Before raising handrail, place scale on solid, non-slippery, level surface.	
Raise the handrail until it is in upright position. Fix the locking hooks on the hinge back in place, and ensure the handrail is firmly secured.	

F. Inserting Batteries

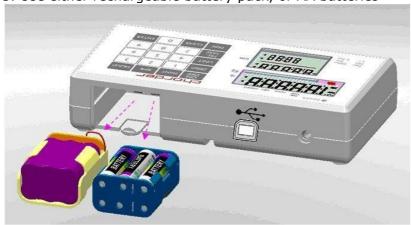
1. Open battery housing cover



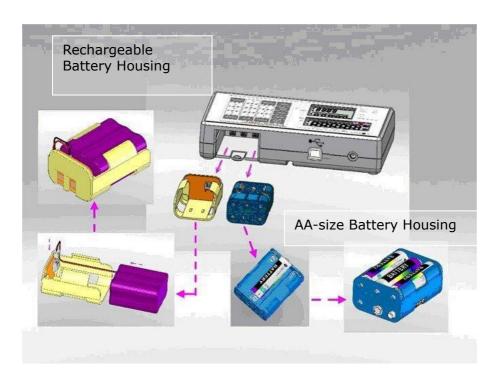
2. Accessing batteries



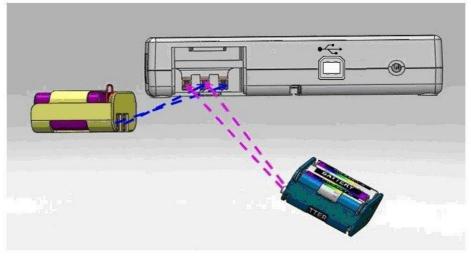
3. Use either rechargeable battery pack, or AA batteries



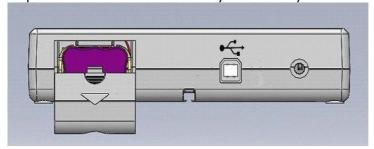
4. Ensure batteries are installed into the housing correctly



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.

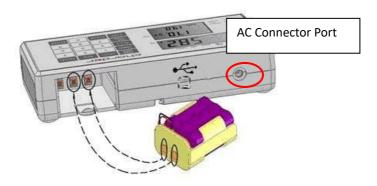


Using Rechargeable Battery (optional)

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.

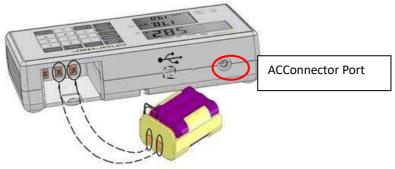
Ensure rechargeable battery housing is installed and inserted properly into the compartment.



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

G. 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



(Wireless functionality optional)

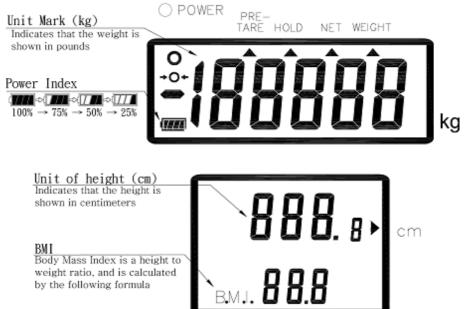
Key Function

- 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. M1-5: Saving pre-tare values (up to 5)
- 4. PRE-TARE: Pre-tare the known weight of an object (ex: chair) before beginning measurement.
- 5. TARE: Allows user to deduct weight from reading after measurement
- 6. PRINT: When printer or PC is connected to the scale, press this key to print results
- 7. BMI: Calculation of Body Mass Index
- 8. HOLD: Determine stable weighing value used when weight is unstable. Press and hold for 3 seconds to enter time setting.
- 9. 0-9: For entering digits.



11. ENTER: Confirm input

B. Display layout



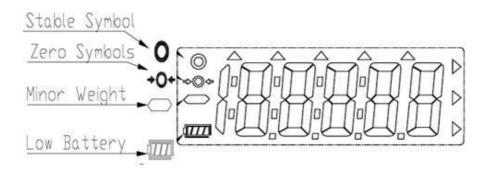
Definitions

Stable symbol: Indicate that weight is stable.

Zero symbol: Weight is at zero

Negative weight: Weight under zero.

Low battery: Battery needs to be charged or replaced.



VI. Using Device

A. Basic Operation

Switch on the device using 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 key to zero the device.

Push wheelchair (with seated subject) onto measurement platform. After weight has stabilized, the "stable" symbol will appear on indicator.

Note: If total weight (subject + wheelchair) exceeds scale capacity (including tare), indicator will display "Err" prompt due to overload.

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. Switch on the device normally.
- 2. Press the key. "HOLD" will be displayed on the indicator.
- 3. Push wheelchair (with seated subject) onto measurement platform.
- 4. After a few seconds, the average weight will be displayed on the indicator. This weight will be locked at this point, subject can step off from device.
- 5. To release the locked weight, press the key again to return to the device to normal mode.

Note: Hold function can be activated before or after pushing wheelchair onto measurement platform. However, if subject finds it difficult to stand still, we recommend activating Hold after subject stands on platform.

C. BMI

- 1. In normal mode, press the key to enter BMI mode.
- 2. Display will show last recorded height. Left-most digit will flash.

- 3. Enter height using numeral keys (ex: 170 cm). Input will automatically move to next digit. Press key to re-input. Press key to manually move to next digit.
- 4. After inputting height, press to confirm.
- 5. Proceed to weigh subject as usual. Indicator will display weight, height, and BMI.

NOTE: Hold function can be used at this time if weight is unstable

6. Press key to return to normal mode.

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)

D. Tare

The tare function allows the user to deduct the weight of objects from the device's measurement result.

- 1. Place object that needs to be tared onto measurement platform.
- 2. Press key after stable symbol appears on indicator. Display will indicate "0.00 kg".
- 3. Guide subject (plus tared object) to be weighed upon measurement platform. Conduct measurement.
- 4. To clear tare value, remove all objects from measurement platform, and press key.

E. Pre-Tare

The Pre-Tare function is used to subtract the known weight of a substance prior to weighing. The device can store 5 sets of pre-tare values. (ex: 5 different wheelchair weights)

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 key for 3 seconds.

A. Load Weight

A. Load Weight			
DESCRIPTION	EXAMPLE		
Press M1-5 key after loading weight on the platform; the indicator will display blinking "m" symbol.	S		
Press numeral key $1\sim 5$ to assign this number with the current pre-tare weight.	C C C C C C C C C C		
Press key to store pre-tare weight; the indicator will make a beep sound.	O PRINT BUI HOLD		

B. Input Manually

DESCRIPTION	EXAMPLE
Press key. Left-most digit	O FORM WE HOLD MET MEAN SEL HOLD
will begin blinking.	87 PRIVI BN HOLD
If no further action is taken within 6 seconds, indicator will return to normal mode	WI-5 4 5 6
	cm PRF 7 B 9
	TARE CLEAR O ENTER

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.

Press 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 key; the blinking "m" symbol will appear on the display.



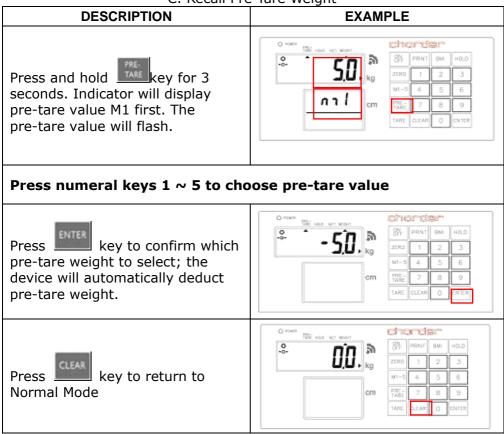
Press numeral key 1 \sim 5 to assign this number with the current pre-tare weight.



Press key to store pre-tare weight; the indicator will make a beep sound.



C. Recall Pre-Tare Weight



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

F. Print

If thermal printer is connected to indicator, results can be printed by pressing key.

VII. Device Setup

A. Setting Time & Date

Press and hold



keyfor 3 seconds to enter Time Setting mode.

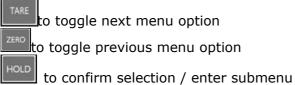
Example: Inputting2008, Dec 25, 8:00am

	Year Setting
7000	Enter year using numeral keys 0-9.
~;;;;	HOLD
	Press key once completed to proceed to month & date setting.
	Month & Day Setting.
	Enter month, followed by day using
	numeral keys 0-9.
1225	Ex: December 25th is "12.25".
([,[,]	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
08:00	0-8-0-0.
	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.
7000 (775 (775	 YYYY→MM.DD→:HH:MM
<u> 2008</u>	ייוויו.וווו.ליטט.ווויוידידו וויוידידו וויוידידו וויוידידו וווידידו וויוידידו וויידידו וויידידידו וויידידידו ווי
	HOLD
	Press key to return to normal
	weighing mode.

B. Device Setup

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

In device setup menu:





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

Press to toggle between options (120 sec / 180 sec / 240 sec / 300 sec / off), and 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 to toggle between on/off, and key to confirm selection.

KoLdS

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

Press to toggle between on/off, and key to confirm selection.



Language: Set thermal printer language

Press to toggle between English, Italian and Polish. Press key to confirm selection.





Font size: Set thermal printer font size.

Press to toggle between normal and double (larger). Press key to confirm selection.





BT / Wifi (optional): If device has BT or Wifi module installed,the function can be turned OFF/BT/Wifi.

Press **[HOLD]** to toggle between OFF/BT/Wifi, and **[TARE]** to confirm selection.

PSEŁ

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

Press to toggle between "Auto" and "PKEY". Press to

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 key is pressed.

VIII. 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.

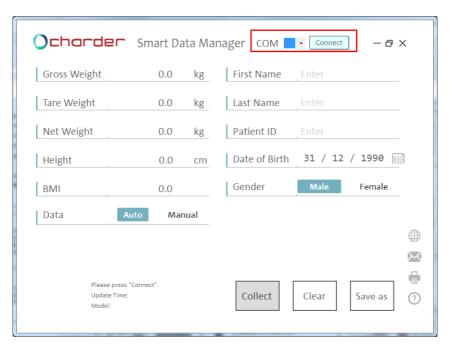
1. Charder Smart Data Manager can be used to connect the device to a PC. The software program can be downloaded from the Charder website:

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

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

Program Setup

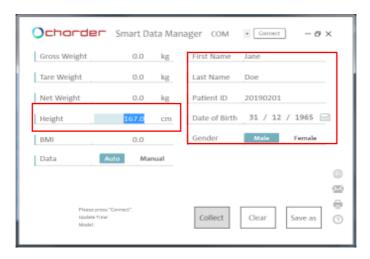
1. After installation of Charder Smart Data Manager is complete, software will automatically search for COM port. Press [Connect]. Once connected, [Connect] button will change to [Disconnect].



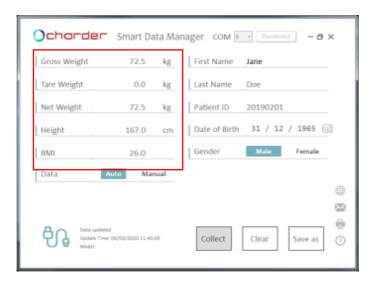
Conducting Measurement

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.

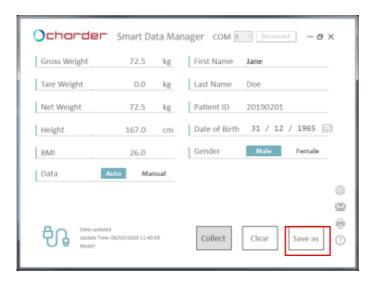


2. Conduct measurement. If **[Auto]** is selected, results will be transmitted from device to software automatically and displayed on the left of screen. If **[Manual]** is selected, user must press "Collect".

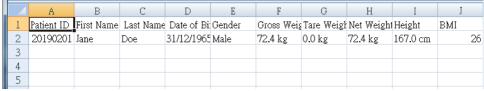


Saving & Printing Results

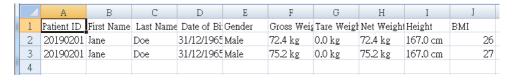
1. Press **[Save as]** to save measurement results as .csv file on PC. Default file name is same as user ID. (ex: 20190201.csv) To track changes and multiple measurements for the same subject, we recommend not changing the default file name.



2. Result example:

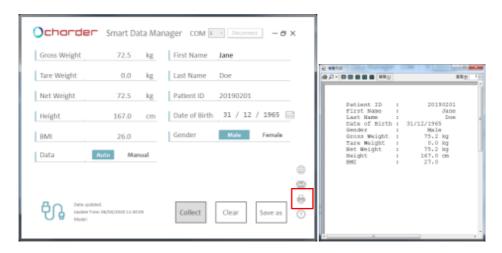


If previous results were saved in "20190201.csv", new results also need to be saved as "20190201.csv" (overwriting old file) in order to save multiple results for the same subject.



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.



IX. Wireless Connection

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

X. 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 AC 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 AC 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
{rr	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	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

XI. Product Specifications

N I I			
Model		MS3830	
Display		DP3710	
	Capacity	300 kg x 0.1 kg	
Weight	Accuracy	±1.5e	
Measurement	OIML	Class III	
	LCD Screen	1.0-inch LCD screen (5 1/2 digits)	
Dimensions	Overall	1150(W) x 800(D) x 66(H) mm	
Dilliensions	Platform	900(W) x 740(D) mm	
Device	Weight	28.6 kg	
Key Functions		On/Off, Zero, Print, BMI, Hold, Pre-Tare, Tare, Clear, Enter, 0~9, M1-5	
Data Transmission		USB, Wireless Module (optional) NOTE: Device should be connected to	
Power Supply		network by qualified distributors only. Rechargeable battery pack (optional) or 6 AA batteries / Power adapter	
Operation Environment		0°C∼+40°C 15% / 85% RH 700 hPa ∼1060 hPa	
Standard Accessories		(see accessory list)	
Optional Accessories		Thermal Printer, Handrail Set, Indicator Stand	



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.	ТҮРЕ	Adapter plug
12V 2A	CD-AD-00041	UES24LCP-120200SPA	US	
	CD-AD-00041	UES24LCP-120200SPA	EU	
	CD-AD-00041	UES24LCP-120200SPA	UK	90 - degree
	CD-AD-00041	UES24LCP-120200SPA	AU	

Standard Accessories

No.	Accessories	Item	Spec.	Qty.
1	2	Adjustable feet	M6*15	2
2	0	Spacer	§ 6.6* § 13	2
3	6	Fixed plate (top)	SS-4961	1
4		Fixed plate (bottom)	SS-4971	1
5	Ommo	Tapping Screw	M3*10	2
6	Charden ^a	User manual		1
7		USB cable		1
8		12V 2A Adapter		1
9		Plastic anchor	1"(white)	2
10		Screw	4*20	2

Notes			

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XII. 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:



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

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