# Chair Scale

USER MANUAL

**MS5460**

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

# CONTENTS

## Explanation of Graphic Symbols on Label/Packaging

| Text/Symbol | Meaning |
|---|---|
|  | Caution, consult accompanying documents before use |
|  | Separate collection for waste of electrical and electronic equipment, in accordance with Directive 2002/96/EC. Do not dispose of device with everyday waste |
|  | Name and address of device manufacturer, and year/country of manufacture |
|  | Carefully read user manual before installation and usage, and follow instructions for use. |
|  | Medical electrical device, Type B applied part |
|  | Medical electrical device, Type BF applied part |
| REF | Device catalogue number / model number |
| EC REP | Name and address of authorized representative in the European Union |
| MD | Device is a medical device. Text indicates device category type |
| LOT | Manufacturer's batch or lot number for device |
| SN | Device's serial number |
| UDI | Device's Unique Device Identifier |
| e | Verification Scale Interval. Value expressed in units of mass. Used to classification and verification of an instrument. |
| CE 2460 | Device conforms to (EU) 2017/745 Regulation on Medical Devices. Fourdigit number is identifier for medical device Notified Body |

| | |
|---|---|
| CE M 20 0122 | Device complies with EC directives (verified models only)<br><br>**M**: Conformity label in compliance with Directive 2014/31/EU for non-automatic weighing instruments<br>**20**: Year in which conformity verification was performed and the CE label was applied. (ex: 16=2016)<br>**0122**: Identifier for metrology Notified Body |
|  | Device is a Class III scale in compliance with Directive 2014/31/EU (verified models only) |
|  | Name and address of entity importing device (if applicable) |
|  | Name and address of entity responsible for translating Information For Use (if applicable) |
| CON. | Event counter confirming how many times device has been calibrated (if applicable) |
|  | Device conforms to Taiwan National Communications Commission(NCC) approval |
|  | Device conforms to U.S. Federal Communications Commission regulations |
| UK CA M 20 8506 | Device complies with UK non-automatic weighing instruments regulations 2016 (verified models only)<br>**M**: Conformity label in compliance with Non-automatic Weighing instruments Regulations 2016<br>**20**: Year in which conformity verification was performed and the UKCA<br>label was applied. (ex: 20=2020)<br>**8506**:Identifier for metrology approved body |
|  | Device complies with all UK applicable product legislation |
|  | Device's polarity of power. |

**"In case of differences, icon on device itself takes precedence"**

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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 Purpose

This medical device is designed to be used in accordance with national regulations, to measure weight within specifications, for weight-related usage by professionals.

### Clinical Benefit

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

### Intended medical indications/contraindications

Measurement: patient's body weight. No known contraindications to measurement of body weight.

### Intended patient profile

(a) Age: no restrictions
(b) Weight: no restrictions within device weight capacity
(c) Patient Conditions: require measurement of body weight. Unable to stand independently without support.

### Intended user profile

(a) At least 20 years old
(b) Minimum knowledge:
- To be able to read at a high-school level and understand Arabic numerals (e.g. 1, 2, 3, 4...)
- Basic hygiene knowledge
- Trained in device's operation
- Read the instruction manual

(c) Language
- Able to read the language of instruction manual and on-screen instructions

(d) Qualifications
- No special certifications or qualifications required

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

**General Handling**

- Ensure all parts are properly locked and tightened before operating the device.
- Measurement accuracy requires the subject's feet, back, and head to be straightly aligned. Please note that height can vary throughout the day
- **CAUTION**: Do not use next to equipment that may cause electromagnetic or other types of interference.

**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:

- The device has an expected service life of 5 years when correctly handled, serviced, and periodically inspected in accordance with manufacturer's instructions.
- Improper installation will render the warranty null and void.
- Observe permissible ambient temperatures for use

**Cleaning**

- Device surface should be cleaned using alcohol-based wipes.

**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, unless damage is attributable to negligence on the part of Charder.
- This device does not contain any user-maintained parts. All maintenance, technicalinspections, 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.

**Warning**

Measurements for physically disabled persons.

- Physically disabled persons should not attempt to take measurements alone, but instead should have their caretakers assist them in using the device.
- Footrest can only be used when subject is sitting in chair. To avoid injury, subject should refrain from standing on footrest, as device may tip over if used incorrectly.

**Warning**

- The collapsible frame should be handled with caution. Keep fingers, hands, or other parts of the body clear when folding or unfolding frame, to avoid injury.

**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 GuidanceandManufacturer's Declaration

| **Guidance and manufacturer's declaration-electromagnetic emissions** | | |
|---|---|---|
| The product isintended for use in the electromagnetic environment specified below. The customer or the user of the product should assure that it is used in such an environment. | | |
| **Emission test** | **Compliance** | **Electromagnetic environment-guidance** |
| RF emissions CISPR 11 | Group 1 | The product uses RFenergy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronicequipment. |
| RF emissions CISPR 11 | Class A | The product is suitable for use in all establishments other than domestic and those directly connected to a low voltage power supply network which supplies buildings used for domestic purposes. |
| Harmonic emissions IEC 61000-3-2 | Class A | |
| Voltage fluctuations /flicker emissions IEC 61000-3-3 | Compliance | |

| **Guidance and manufacturer's declaration-electromagnetic immunity**<br>The product is intended for use in the electromagnetic environment specified below.<br>The customer or the user of the product should assure that it is used in such an environment. | | | |
|---|---|---|---|
| **Immunity test** | **IEC 60601 test level** | **Compliance level** | **Electromagnetic environment-guidance** |
| Electrostatic discharge(ESD) IEC 61000-4-2 | ±8 kV contact<br>±2 kV, ±4 kV, ±8 kV, ±15 kV air | ±8 kV contact<br>±2 kV, ±4 kV, ±8 kV, ±15 kV air | Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30% |
| Electrical fast transient/ burst IEC 61000-4-4 | ± 2kV for power supply lines | ± 2kV for power supply lines | Mains power quality should be that of a typical commercial or hospital environment. |
| Surge IEC 61000-4-5 | ± 1kV line(s) to line(s)<br>± 2kV line(s) to earth | ± 1kV line(s) to line(s)<br>± 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<br>0% UT for 1 cycle<br><br>70% UT(30% dip in UT) for 25cycles<br><br>0% UT for 5 s | 0% UT for 0.5 cycle<br>0% UT for 1 cycle<br><br>70% UT(30% dip in UT) for 25cycles<br><br>0% UT for 5 s | Mains power quality should be that of a typical commercial or hospital environment. If the user of the product requires continued operation during power mains interruptions, it is recommended that the product be powered from anuninterruptible power supply or a battery. |
| Power frequency(50, 60 Hz) magnetic field IEC 61000-4-8 | 30 A/m | 30 A/m | The product power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospitalenvironment. |
| NOTE UT is the a.c. mains voltage prior to application of the testlevel. | | | |

| **Guidance and manufacturer's declaration-electromagnetic immunity** | | | |
|---|---|---|---|
| Theproduct is intended for use in the electromagnetic environment specified below.<br><br>The customer or the user of the product should assure that is used in such and environment. | | | |
| **Immunity test** | **IEC 60601 test level** | **Compliance level** | **Electromagnetic environment-guidance** |

| | | | |
|---|---|---|---|
| Conducte d RF IEC 61000-4-6 | 3 Vrms 150 KHz to 80 MHz<br><br>6 V in ISM bands between 0,15 MHz and 80 MHz 80 % AM at 1 kHz | 3 Vrms 150 KHz to 80 MHz<br><br>6 V in ISM bands between 0,15 MHz and 80 MHz 80 % AM at 1 kHz | Portable and mobile RF communications equipment should be used no closer to any part of the product including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.<br><br>**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 | $d = 1,2 \sqrt{P}$<br>$d = 1,2 \sqrt{P}$ 80MHz to 800 MHz $d = 2,3 \sqrt{P}$ 800MHz to 2,7GHz<br>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).<br><br>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]<br><br>Interference may occur in the vicinity of equipment marked with the following symbol:<br>  |

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

NOTE2 Theseguidelinesmaynotapplyinallsituations.Electromagneticpropagationisaffected byabsorptionand reflection from structures, objects andpeople.

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

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

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

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

| **Rated maximum output power of transmitter** W | **Separation distance according to frequency of transmitter m** | | |
|---|---|---|---|
| | **150 kHz to 80 MHz** $d = 1{,}2\sqrt{P}$ | **80 MHz to 800 MHz** $d = 1{,}2\sqrt{P}$ | **800 MHz to 2,7 GHz** $d = 2{,}3\sqrt{P}$ |
| 0,01 | 0,12 | 0,12 | 0,23 |
| 0,1 | 0,38 | 0,38 | 0,73 |
| 1 | 1,2 | 1,2 | 2,3 |
| 10 | 3,8 | 3,8 | 7,3 |
| 100 | 12 | 12 | 23 |

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

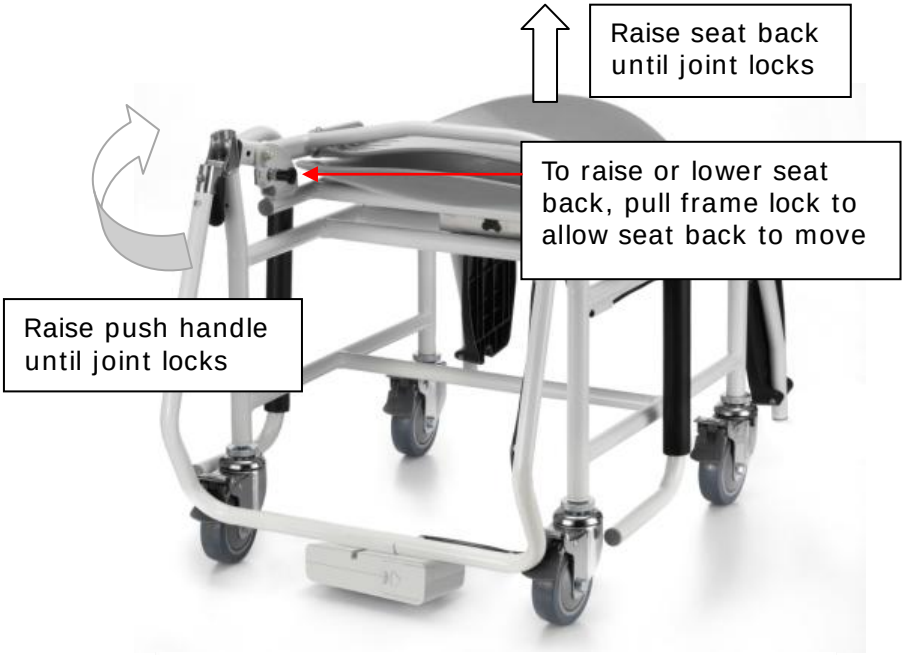
NOTE1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

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

## II. Installation

### A. Unfolding device

Device should arrive in folded form.




Rotate footrests into position.

**Unlocking instructions for frame**


**Engaging wheel brakes**

Wheel brakes should be engaged prior to measurement. Press down on brakes to engage.

## B. Inserting Batteries

1. Open battery housing cover

2. Take out battery housing

3. Place batteries in compartment(ensure polarity is correct)

4. Insert battery housing

5. Close battery housing cover.

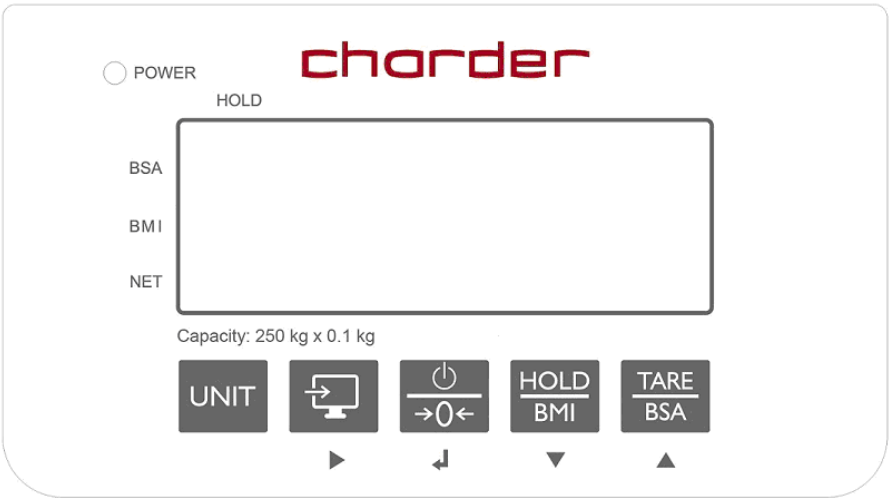
6. Turn on power to confirm that battery is correctly installed.

**C. 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.

## III. Indicator

### A. Indicator and Key Functions

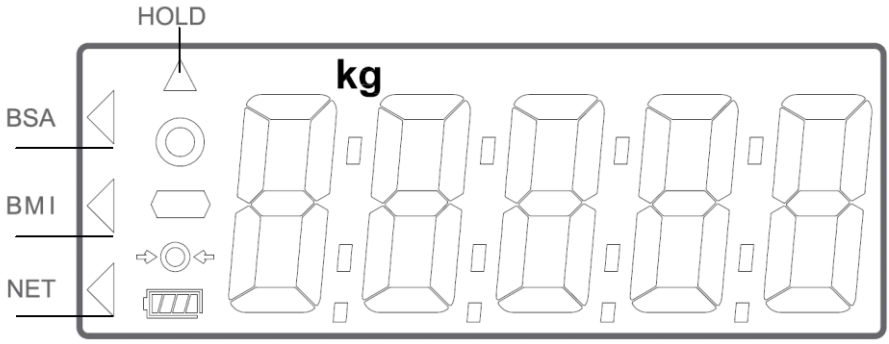



(Wireless functionality optional)

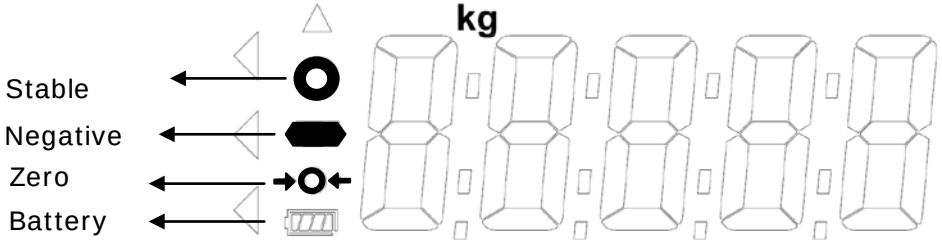
**Key Function**

| | |
|---|---|
| UNIT | UNIT: Switch between units. |
| | Send Data: When printer is connected to the indicator, press this key to send results.. |
| →0← | On/Off/Zero: Power button. Press and hold to turn off. Press once to zero weight. |
| HOLD BMI | HOLD/BMI: Press once to Hold (determine stable weighing value - used when weight is unstable). Press and hold for 3 seconds to enter Body Mass Index (BMI) calculation mode. |
| TARE BSA | TARE/BSA: Press once to Tare (deduct weight from reading after measurement). After using BMI function, press once to display Body Surface Area (BSA). |

**B. Display layout**




**BSA**: Body Surface Area is being displayed
**BMI**: Body Mass Index is being displayed
**NET**: Net weight appears after tare is activated
**HOLD**: Weight lock function is in use




**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.

## IV. Using Device

### A. Basic Operation

Switch on the device using 

key. (To turn off device, press and hold 

key for 3 seconds) 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. This function can be used for weight within ±2% of full capacity.

Guide subject to sit on chair. Make sure subject's feet are off the ground, and properly placed upon footrests. After the weight has stabilized, the "stable" symbol will appear on indicator.

**Note**: If subject's weight 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. Guide subject to sit on chair.
4. After a few seconds, the average weight will be displayed on the indicator. This weight will be locked - at this point, subject can stand up from chair.
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 subject sits in chair. However, if subject finds it difficult to sit still, we recommend activating Hold after subject is seated. Hold function will not function under 2 kg

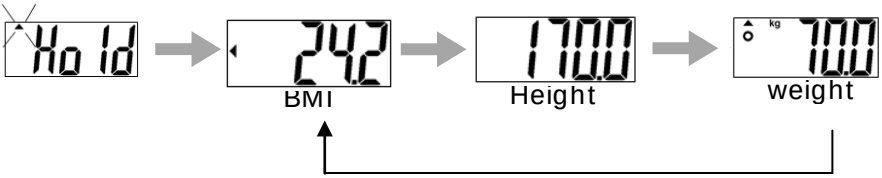
## C.Tare

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 TARE BSA key after stable symbol appears on indicator. Display will indicate "0.00 kg".
3. Guide subject (plus tared object) to sit in chair. Conduct measurement.
4. To clear tare value, remove all objects from measurement platform, and press TARE BSA key.

## D. Body Mass Index (BMI)

1. In normal mode, press and hold the HOLD BMI key to enter BMI mode.
2. Display will show last input height. Left-most digit will flash.
3. Adjust height value using TARE BSA (increase ↑) and HOLD BMI (decrease ↓) keys. Proceed to next digit using key. Press →0← key to confirm.
5. Proceed to weigh subject as usual. Indicator will display weight, height, and BMI after measurement.

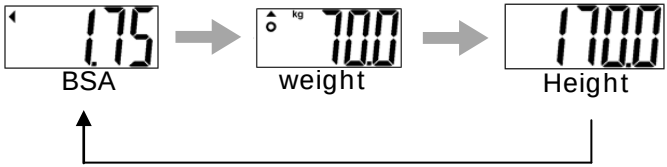



| Category | BMI (kg/m$^2$) | Risk of obesity-related disease |
|---|---|---|
| Under | < 18.5 | Low |
| Normal | 18.5-24.9 | Average |
| Over | 24.9-29.9 | Slightly Increased |
| Obese I | 30.0-34.9 | Increased |
| Obese II | 35.0-39.9 | High |
| Obese III | > 40 | Very High |

(World Health Organization adult BMI standards)

## E. Body Surface Area (BSA)

1. After calculating BMI, press TARE/BSA key. BSA will be displayed on indicator. Press TARE/BSA key to return to BMI mode. Press HOLD/BMI key to return to normal weighing mode.




## F. Print

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

## V. Device Setup

When the device is switched on, press and hold the **[TARE/BSA]** key for 6 seconds, until the display shows the "SETUP", followed by"AOFF" (first option in setting menu).

In device setup menu:

HOLD BMI to toggle next menu option

TARE BSA to toggle previous menu option

⏻ →0← 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 ⏻ →0← 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 ⏻ →0← 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 ⏻ →0← key to confirm selection


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

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


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

Press **[HOLD]** to toggle between "Auto" and "PKEY". Press **[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.

Press 

key when 

appears on indicator to save all settings and return to weighing mode.

## VI. 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.

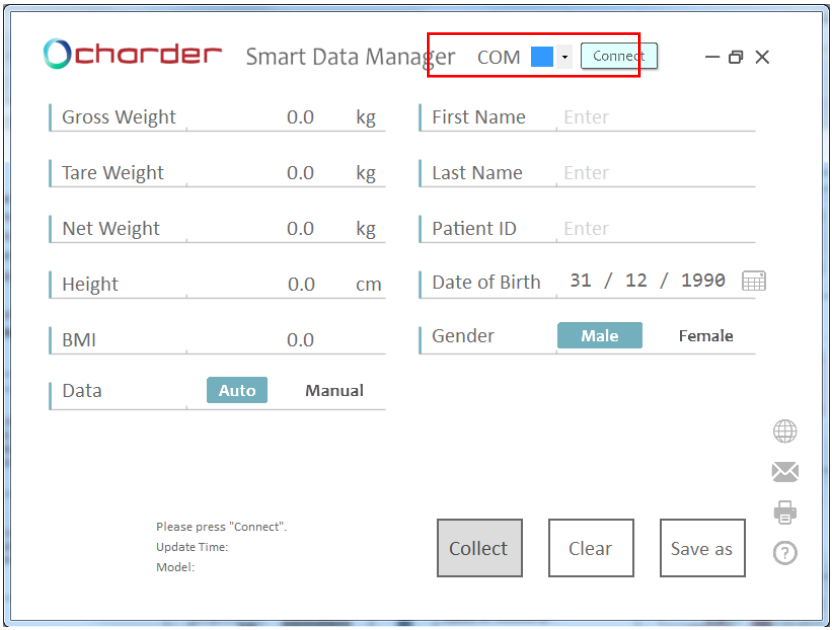
1. Charder Smart Data Manager can be used to connect the device to a PC. The software program can be downloaded from the Charder website:

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

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

**Program Setup**

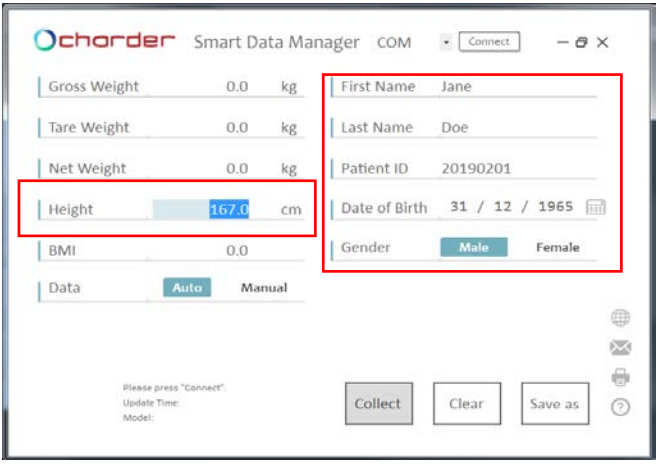
1. After installation of Charder Smart Data Manager is complete, software will automatically search for COM port. Press [**Connect**]. Once connected, **[Connect]** button will change to **[Disconnect**].



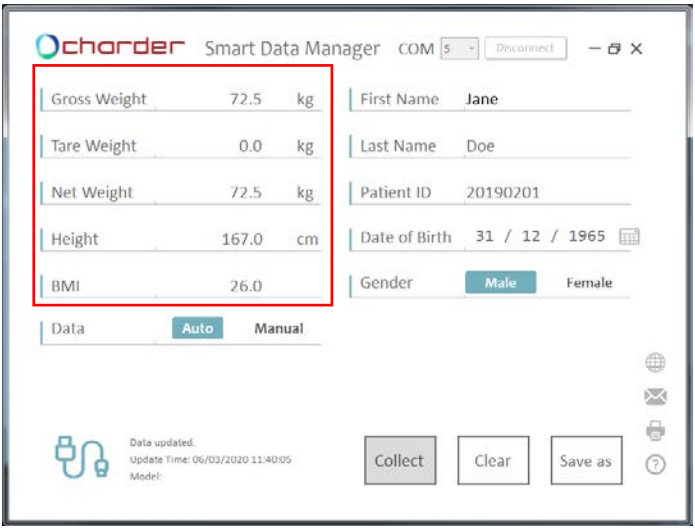
**Conducting Measurement**

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.

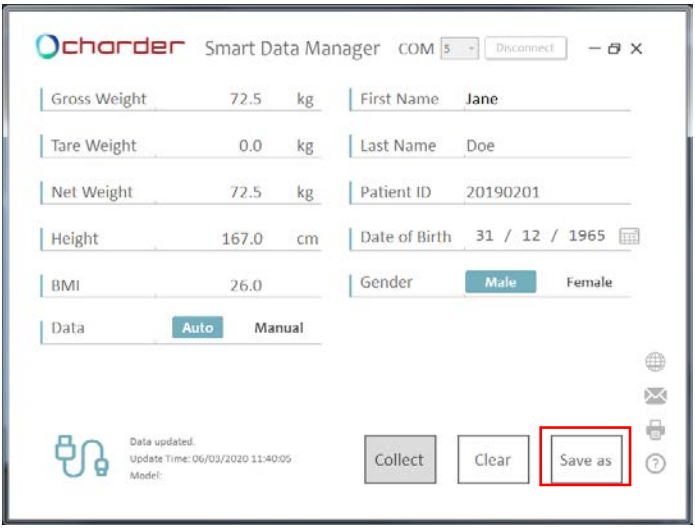



2. Conduct measurement. If **[Auto]** is selected, results will be transmitted from device to software automatically and displayed on the left of screen. If **[Manual]** is selected, user must press "Collect".



**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:

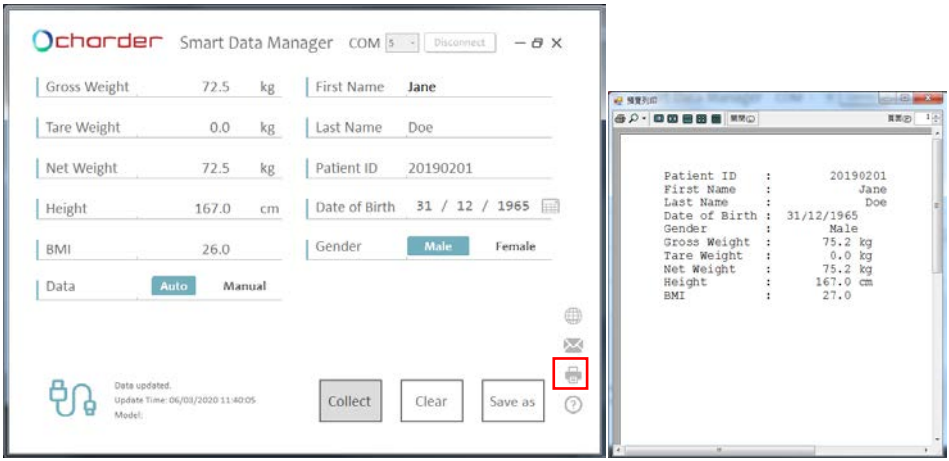
| | A | B | C | D | E | F | G | H | I | J |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Patient ID | First Name | Last Name | Date of Bi | Gender | Gross Weig | Tare Weigh | Net Weight | Height | BMI |
| 2 | 20190201 | Jane | Doe | 31/12/1965 | Male | 72.4 kg | 0.0 kg | 72.4 kg | 167.0 cm | 26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




**NOTE**: Body Surface Area (BSA) data cannot be transferred to PC. BSA results should be read from device indicator.

## VII. 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.

## VIII. 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 wheel level according to bubble level indication 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

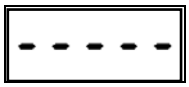
**Distributor support required**

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 |
|---|---|---|
|  | **Low battery warning** Voltage of battery is too low to operate device | Replace batteries, or plug in AC adapter |
|  | **Overload** Total load exceeds device's maximum capacity | Reduce weight on measurement platform and try again |
|  | **Counting Error** Signal from loadcells too high or low | Error normally caused by faulty loadcell or wiring. Please contact distributor |
|  | Zero count over calibration zero range +10% while power on | Remove weight from device and try again. If error persists, please contact distributor |
|  | Zero count under calibration zero range -10% while power on | Remove weight from device and try again. If error persists, please contact distributor |
|  | **Program Error** Fault with device software | Please contact distributor |
|  | **Negative weight** Weight reading below -2 kg. | Press  key to return to 0.0. |

## IX. Product Specifications

### A. Device Information

| Model | | MS5460 |
|---|---|---|
| Display | | DP4600 |
| Weight Measurement | Capacity | 300kg x 0.1kg, |
| | Accuracy | ±1.5e |
| | Unit | Class III |
| | LCD Screen | 1.0-inch LCD screen (5 1/2 digits) |
| Dimensions | Overall | 690(W) x 1235(D) x 945(H) mm |
| | Seat | Height: 540mm<br>Width: 560 mm<br>Back Height: 450 mm |
| | Armest | Height: 700 mm |
| | Device Weight | 17.6 kg |
| Key Functions | | Unit, On/Off/Zero, Send Data, Hold/BMI, Tare/BSA |
| Data Transmission | | USB<br><br>**NOTE :** Device should be connected to network by qualified distributors only. |
| Power Supply | | 6 AA batteries / Poweradapter |
| Operation Environment | | 0℃~+40℃<br>15% / 85% RH<br>700 hPa ~1060 hPa |
| Optional Accessories | | Thermal Printer |
| Standard Accessories | | User manual x 1<br>Power Adapter x 1<br>USB cable x1 |

## B. Power Adapter Standards

**Warning**

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

| AMP VOLTAGE | DRAWING NO. | CE APPROVED TYPE NO. / MODEL NO. | TYPE | Adapter plug |
|---|---|---|---|---|
| 12V 2A | CD-AD-00043 | UES12LCP-120100SPA | US |  180 - degree |
| | CD-AD-00043 | UES12LCP-120100SPA | EU | |
| | CD-AD-00043 | UES12LCP-120100SPA | UK | |
| | CD-AD-00043 | UES12LCP-120100SPA | AU | |

# Notes

## X. Declaration of Conformity

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

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

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

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

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

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

Authorized EU Representative:

EC REP

**Obelis s.a.**
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Belgium

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