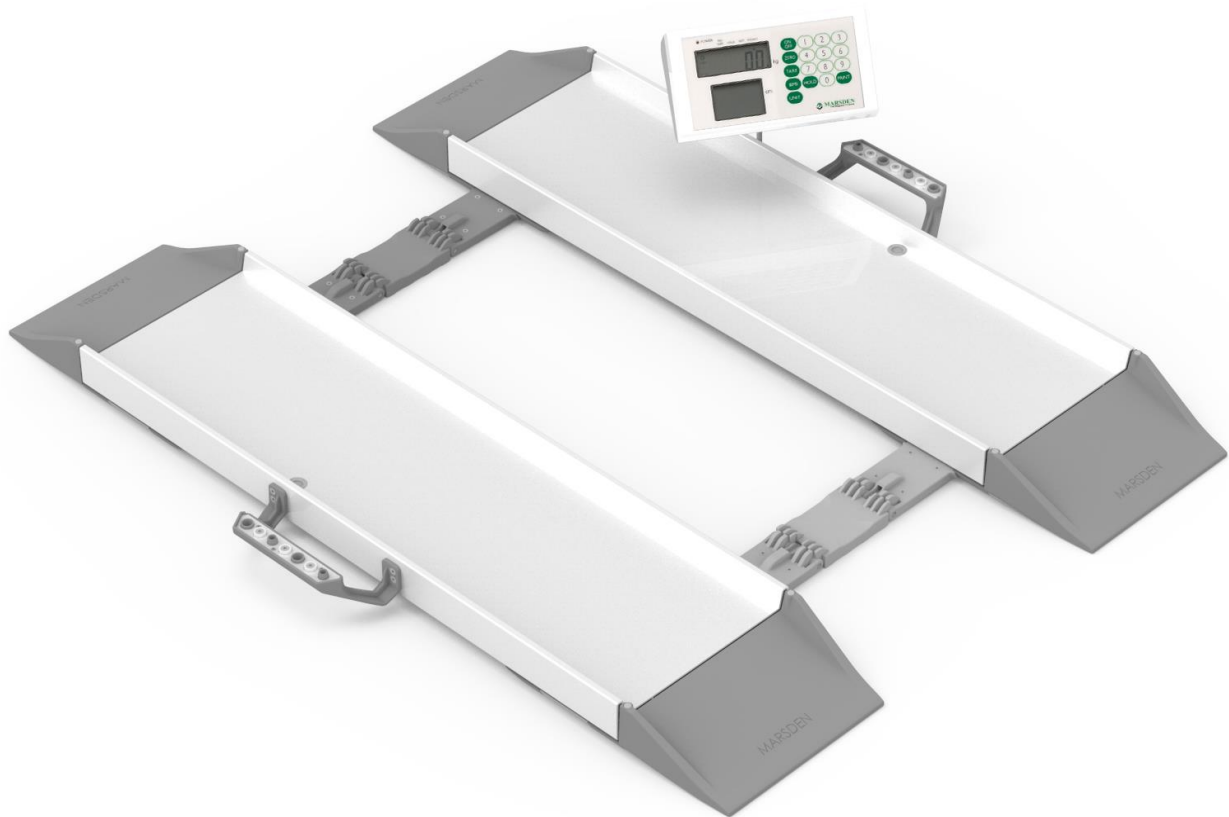


MARSDEN

Marsden M-615 User Manual



Please take time to read these instructions before starting to use the scale.

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Introduction

Thank you for purchasing a Marsden professional medical scale. This is a precision Class III weighing instrument and considerate use will result in many years of accurate weighing. The scale has a maximum load capacity of 300kg which must not be exceeded.

Product Specification

| | |
|-----------------------|---|
| Model | M-615 |
| Accuracy Class | Class III |
| Capacity/Division | 300kg x 100g |
| Weight of Each Beam | Approximately 10.0kg |
| Units of Measure | kg |
| Function Keys | ON/OFF, ZERO, TARE, BMI, UNIT, HOLD, PRINT, 0-9 |
| Stabilization Time | 1-2 Seconds |
| Operating Temperature | 0 to 40°C |
| Power Supply | Rechargeable battery pack 6 x AA batteries* 12V 1A AC Adaptor: UE24WV-120100SPA & UE24WB-120100SPA |
| Indicator Display | 2.5cm LCD display with 5 active digits |
| Warranty Duration | 8 years |

Safety Instructions

Before putting the device into use, please read with care the information given in this user manual, which contains important instructions for proper installation, use and maintenance of the device.

Marsden and/or the manufacturer shall not be liable for damages arising from failure to heed the following instructions:

- When using electrical components under increased safety requirements, always comply with appropriate regulations.
- Inappropriate installation/use will render the warranty null and void.
- Ensure the voltage marked on the power supply unit matches your mains supply.
- This device is designed for use indoors only.
- Observe the permissible ambient temperatures for use.
- The device meets the requirements for electromagnetic compatibility. Do not exceed the maximum values specified in the applicable standards.
- Batteries should be kept away from small children. If swallowed, promptly seek urgent medical assistance.

If you have any problems with this scale, please contact Marsden/your local dealer/your service partner.

If a serious incident occurs in relation to this device, it should be reported to the manufacturer and the competent authority of the Member State in which the user and/or patient is established.

Cleaning

- We recommend using alcohol-based wipes or similar when cleaning the scale.
- Please do not use corrosive liquids, large amounts of water or high-pressure washers.
- Always disconnect the scale from the mains power supply before cleaning.

Maintenance

- The scale does not require any routine maintenance. However, we recommend checking the scale's accuracy at regular intervals. If any inaccuracies occur, please contact your local dealer or service partner.
- If you are in the UK, service contracts are available from Marsden to keep your scale accurate and reliable for longer. Call 01709 364296 for more information.
















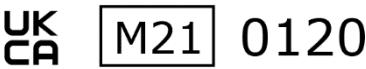
Disposing of the Scale

- This product should not be treated as regular household waste but should be handed in to an electrical/electronic equipment recycling centre.
- You can obtain further details from your local council, your municipal waste disposal company or from where you purchased the product.
- Alternatively, you can return this product to Marsden – we will recycle this free of charge,

Intended Use

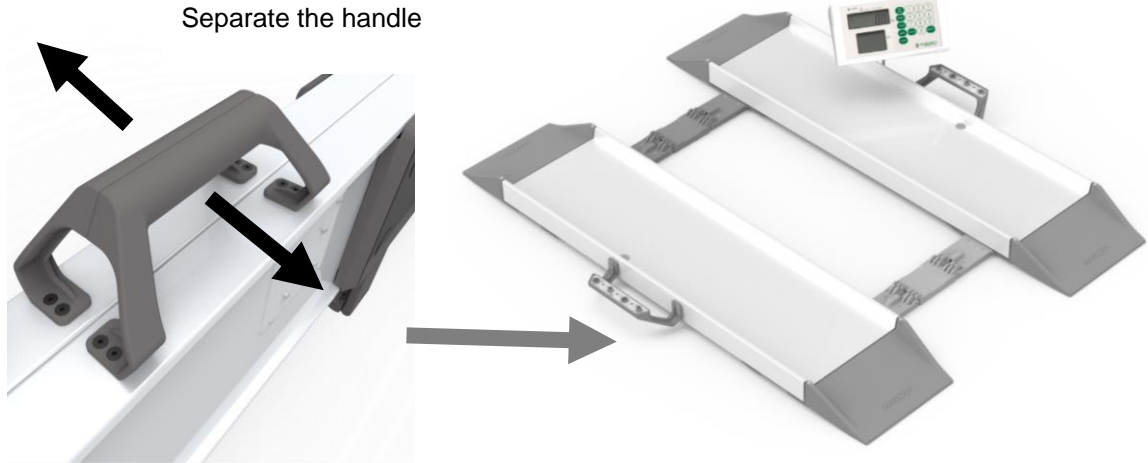
- This scale is intended for use to determine the weight of patients, supported by professional personnel and in rooms intended for carrying out healthcare. The weighing value can be read after a stable weighing value has been obtained. Before use, the scale must be checked by an authorised person to ensure it's in a suitable condition.
- Device is intended to measure one subject at a time.

Explanation of Graphic Symbols

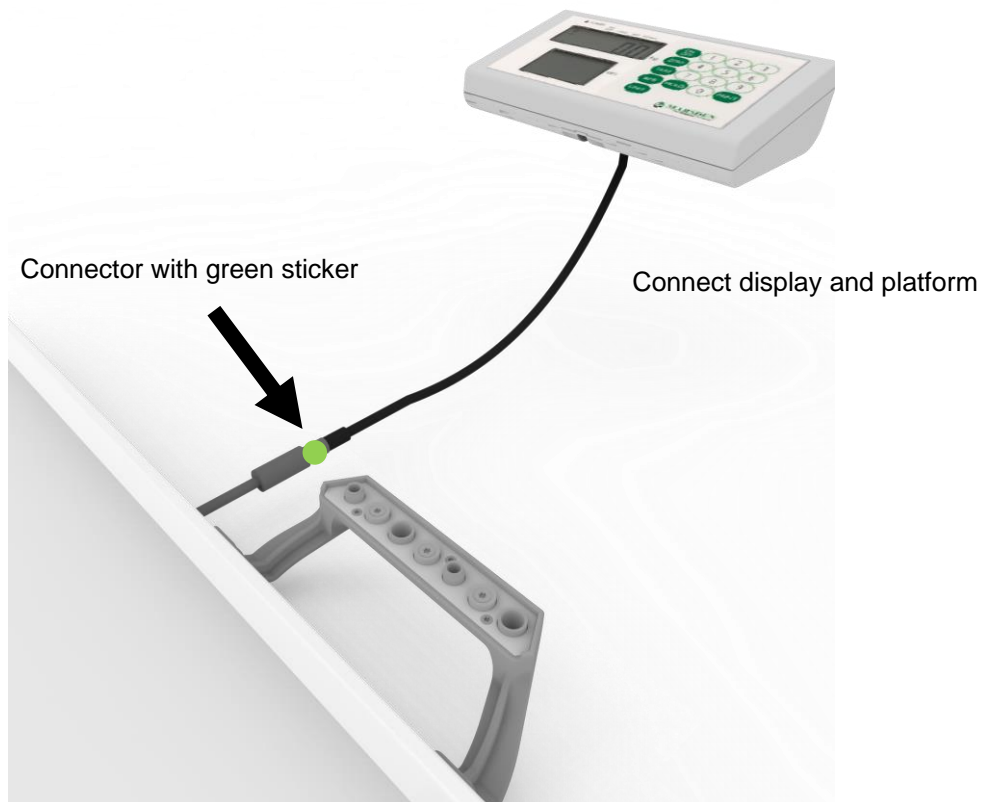
| | | | |
|---|--|---|---|
|  | Caution, consult accompanying documents before use |  | Separate collection for waste of electrical and electronic equipment, in accordance with Directive 2002/96/EC |
|  | Manufacturer of medical device |  | Manufacturing year of medical device |
|  | Carefully read user manual before installation and usage, and follow instructions for use. |  | Medical electrical equipment with Type B applied part |
|  | Device catalogue number |  | Authorized representative in the European Community |
|  | Manufacturer's batch or lot number |  | Device is a medical device |
|  | Serial number |  | Unique Device Identifier |
|  | | | Device conforms to 93/42/EEC as amended by 2007/47/EC Medical Device Directive. Four digit number refers to Notified Body. |
|  | | | Device complies with International Organization of Legal Metrology (Class III) requirements (verified models only) |
|  | | | Device complies with EC directives (verified models only) M : Conformity label in compliance with Directive 2014/31/EU for non-automatic weighing instruments 19 : Year in which conformity verification was performed and the CE label was applied. (ex: 19=2019) 0122 : Refers to Notified Body for metrology |
|  | | | Device complies with UK Regulation. M : Non-Automatic Weighing Instruments Regulations 2016. 21 : Year in which conformity verification was performed and the CE label was applied. (ex: 21=2021) 0120 : Refers to the Approved Body for metrology |

Setting up the Scale - Please read before using the scale.

- 1) Separate the handle and place the scale on a flat and hard ground for use.



- 2) Connect the wire connector on the display to the connector which has a green sticker as mark next to the handle. Install alkaline battery or mains adaptor as power supply. Press ON/OFF button on the display to start using the scale. Refer to page 7 for power supply details.



Power Supply & Low Battery

The indicator uses a rechargeable battery pack, or can be powered from the mains via the AC adaptor.

Make sure the battery pack is installed in the battery box of the indicator. Alternatively, plug the AC adaptor (12V 1A) into the port on the side of the indicator.



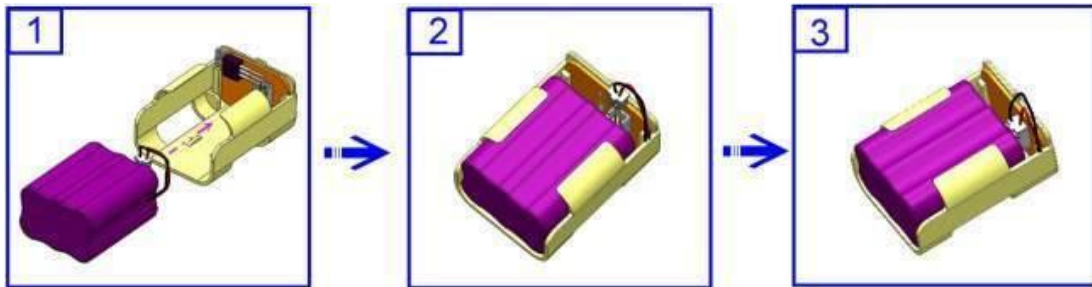
Power Supply and Low Battery

The indicator uses a rechargeable battery pack, a non-rechargeable battery pack, or can be powered from the mains via the AC adaptor.

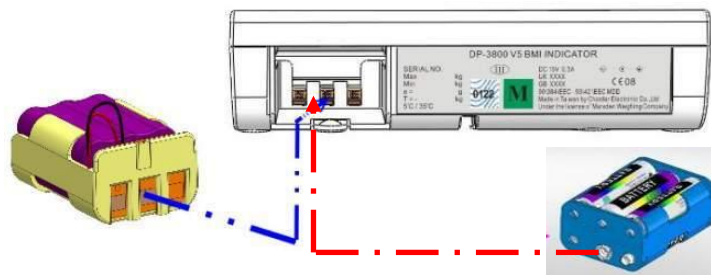
Make sure the battery pack is installed in the battery box of the indicator. Alternatively, plug the AC adaptor (12V 2A) into the port on the side of the indicator.

Installing and Replacing the Battery Pack

1. Take out the battery housing.
2. The rechargeable battery pack will slide into, or out of, the housing.

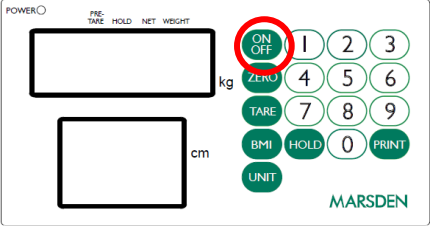
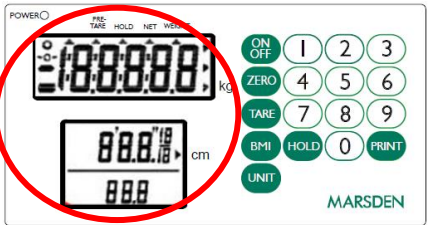
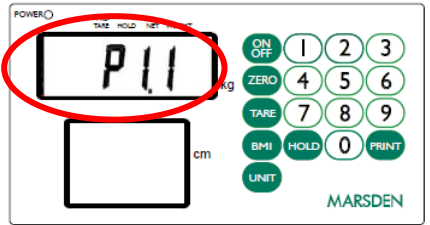
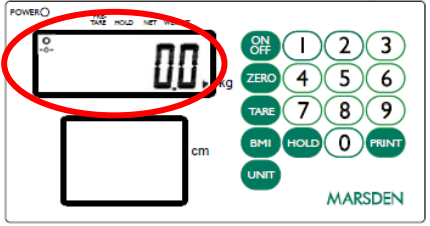


3. Check that the housing pin is connecting to the right point inside the indicator.

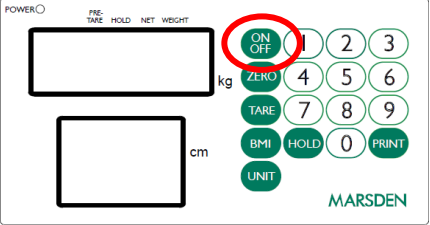


4. Place the housing back in the back of the indicator and close the battery housing cover.

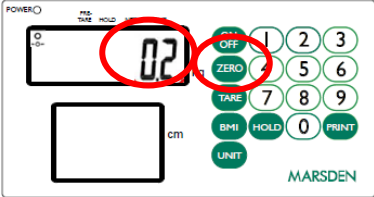
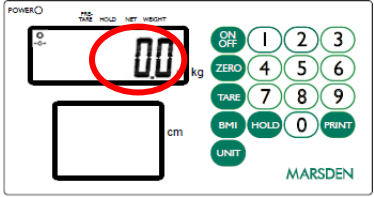
Switching on the Scale

| | |
|--|---|
|  <p>The image shows the control panel of a Marsden scale. At the top left, there is a power indicator labeled 'POWER' with a small circle next to it. Below this are two weighing platforms: the top one is labeled 'kg' and the bottom one 'cm'. To the right of the platforms is a keypad with buttons for 'ON/OFF', 'ZERO', 'TARE', 'BMI', 'UNIT', '1', '2', '3', '4', '5', '6', '7', '8', '9', '0', 'HOLD', and 'PRINT'. The 'ON/OFF' button is circled in red.</p> | <p>Press the ON/OFF button firmly.</p> |
|  <p>The image shows the scale's display. The top display shows '0.0000' and the bottom display shows '0.00'. All segments of both displays are lit up. The 'ON/OFF' button on the keypad is circled in red.</p> | <p>The scale will first test all of the display segments.</p> |
|  <p>The image shows the scale's display with 'P11' on the top display and the bottom display blank. The 'ON/OFF' button on the keypad is circled in red.</p> | <p>The scale will now show its current software version number.</p> |
|  <p>The image shows the scale's display with '0.0' on the top display and the bottom display blank. The 'ON/OFF' button on the keypad is circled in red.</p> | <p>The scale will now go into weighing mode and should show 0.0kg on the display.</p> |

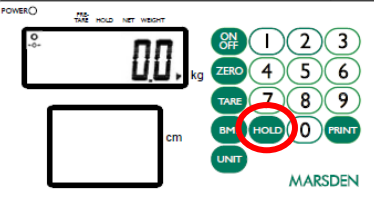
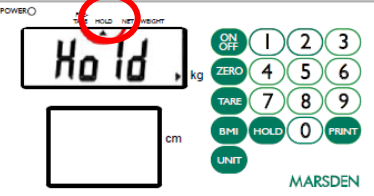
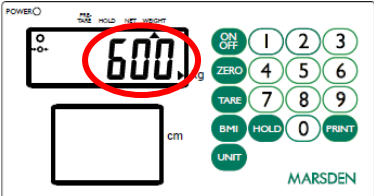
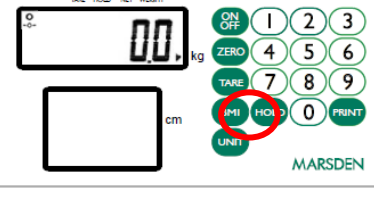
Switching off the Scale

| | |
|---|--|
|  <p>The image shows the control panel of a Marsden scale, identical to the first image. The 'ON/OFF' button is circled in red.</p> | <p>Press the ON/OFF button when the scale is turned on. The scale will now power down.</p> |
|---|--|

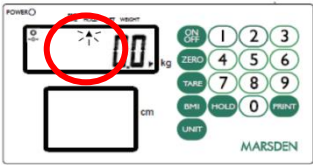
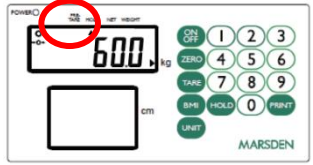
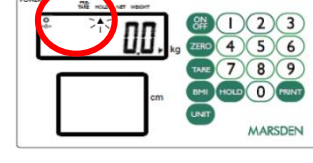
Setting the Scale to Zero

| | |
|---|---|
|  | <p>If for any reason the scale shows a reading other than 0.0kg it can be reset to zero. Press the ZERO key once.</p> |
|  | <p>The scale will return to 0.0kg.</p> |

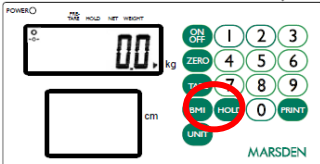
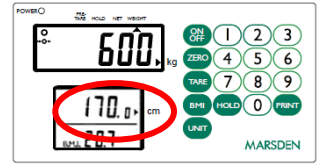
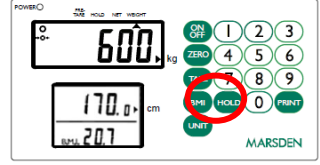
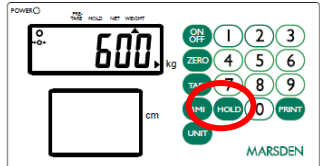
Hold Function

| | |
|---|--|
|  | <p>Press the HOLD button once.</p> |
|  | <p>Allow the patient to be wheeled onto the scale.</p> |
|  | <p>After a few seconds the scale will lock on the person's weight. When the patient leaves the scale, the weight will remain on the display.</p> |
|  | <p>Press HOLD again to disable the Hold function and return the scale to 0.0kg.</p> |

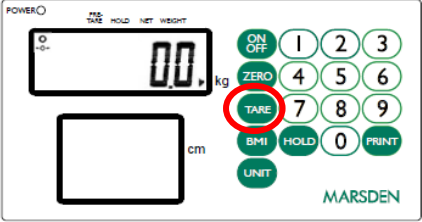
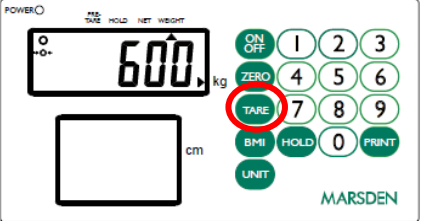
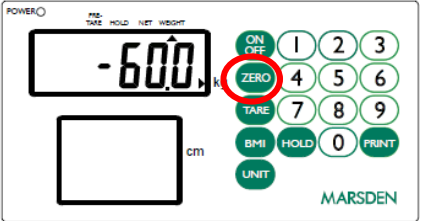
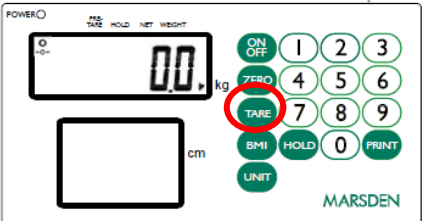
Setting Auto Hold Function (Optional)

| | |
|---|--|
|  | <p>The display will have a flashing triangle mark under the HOLD button once the scale is turned on.</p> |
|  | <p>Allow the patient to be wheeled onto the scale. The scale will automatically lock on the patient's weight to complete the hold function. The triangle mark remains on the display during this period.</p> |
|  | <p>When the patient leaves the scale and the scale returns to 0.0kg., the triangle mark will begin to flash again.</p> |

Body Mass Index (BMI) Function

| | |
|---|--|
|  | <p>In normal mode, press the BMI key to enter into BMI mode.</p> |
|  | <p>The display will show the last height entered and the extreme left digit will flash. Enter the height by using the numeric keys. Press the ZERO key to confirm the height. (NB: There will always be an active flashing digit in the height display, unless HOLD is pressed).</p> |
|  | <p>Weigh the patient as normal. The display will show the weight, height and BMI value. At this time, the weight and height can be freely changed, and the BMI value will be automatically calculated according to the changed weight and height.</p> |
|  | <p>Press the BMI key to return to normal weighing mode.</p> |


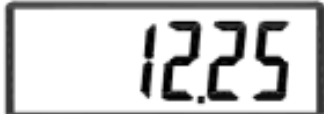

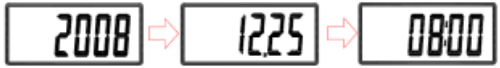

Tare and Pre-Set Tare Functions

| | |
|---|---|
|  <p>The image shows a Marsden scale display with '0.0' and 'kg' on the screen. Below the screen is a weighing pan labeled 'cm'. To the right is a keypad with buttons for 'ON/OFF', '1-9', '0', 'ZERO', 'TARE', 'BMI', 'HOLD', 'PRINT', and 'UNIT'. The 'TARE' button is circled in red.</p> | <p>Press the TARE key for three seconds to enter Preset Tare setting mode.</p> |
|  <p>The image shows the Marsden scale display with '600.' and 'kg' on the screen. The 'TARE' button on the keypad is circled in red.</p> | <p>The display will show the last preset tare entered and the extreme left digit will flash. Enter the preset tare value by using the numeric keys, then press the TARE key again to confirm the value.</p> |
|  <p>The image shows the Marsden scale display with '-600.' and 'kg' on the screen. The 'ZERO' button on the keypad is circled in red.</p> | <p>Press the ZERO key to return to normal weighing mode.</p> |
|  <p>The image shows the Marsden scale display with '0.0' and 'kg' on the screen. The 'TARE' button on the keypad is circled in red.</p> | <p>To use the Tare function, add the item you wish to tare off to the scale, and press the TARE key. The display will show zero, and then a minus number when the item is removed from the scale.</p> |

Setting the Date

Press HOLD for three seconds to access the time setting mode. The time period digit that is flashing can be changed by using the numeric keys. The time period to be edited is selected by pressing HOLD.

E.g., To input 25 December 2008, 8:00 a.m.:

| | |
|---|--|
|  | Enter the year. Press HOLD to confirm and access the date editing field. |
|  | Enter the date. E.g. "12.25" for December 25th. Press HOLD to confirm and access the time clock editing field. |
|  | Enter the time (24 hour clock only). |
|  | Press HOLD and the display shows: YYYY→MM.DD→HH:SS |
|  | Press HOLD to return to normal weighing mode. |

Using the Scale with a Printer

An optional Marsden external printer (model TP-2100) is available for all models. With the printer fitted, the patient's weight, height, and BMI result can be printed.

Once the person has been weighed and their BMI calculated, simply press PRINT to produce the following ticket:

| | |
|-------------------------|----------------|
| GROSS WEIGHT | 60.00kg |
| TARE WEIGHT | 30.00kg |
| NET WEIGHT | 30.00kg |
| PATIENT HEIGHT | 100.0cm |
| PATIENT B.M.I | 37.5 |
| 29/12/2008 17:00 | |

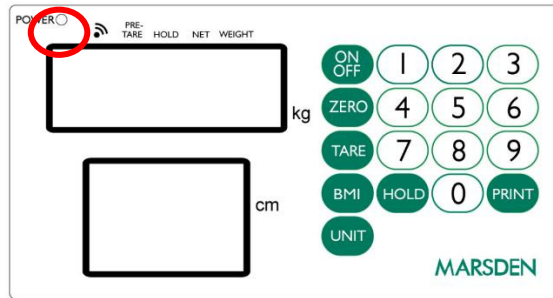
Connecting the TP-2100 Thermal Printer



Plug the cable to the printer, and then connect its 9D connector to the indicator.

Using the Scale with Wi-Fi/Bluetooth

If your scale has device connectivity, the universal wireless symbol will be on the main indicator display. If your scale does have Wi-Fi or Bluetooth connectivity, we do not supply the software to capture the data from the weighing scale. We do however provide the protocols for you to implement the devices into your own software.



Bluetooth Connection

| | |
|--|--|
| | Long press ZERO for three seconds to enter the Setting mode and then display the A-OFF menu. |
| | Press TARE twice, and then press HOLD once to enter the Bluetooth setting mode. |
| | Using the HOLD button, select "ON" (enable) or "OFF" (disable). Press TARE to confirm the setting. Note: Disabling the Bluetooth function when not in use will reduce battery power consumption. |
| | Display the "bluEt" menu. Press TARE once. |
| | Press HOLD to return to normal mode. Search for the scale in your computer or device's Bluetooth settings (procedure may vary depending on device or system) The scale will appear on the Bluetooth device list as "MARSDEN BT". Connect your device to "MARSDEN BT", and the scale is ready to transmit data wirelessly via Bluetooth. |

Wi-Fi Connection


| | |
|--|---|
| | Turn the scale on and press the TARE key for 3 seconds to enter into settings. Press the HOLD key several times until the display shows the information on the left. When the display shows the symbols shown on the left, press the TARE key to see the status (ON/OFF). If the display shows OFF, press the HOLD key once and it will change to ON. Then press the TARE key to confirm the setting. |
| | Press the HOLD key several times until END shows on the display. When END is on the display, press the TARE keypad to enter normal weighing mode. |
| | If the highlighted triangular sign is not visible, Wi-Fi is turned off. If the triangle is solid, the device is connecting. When the triangle is blinking, the device is successfully connected. |

EMC Guidance and Manufacturer's Declaration

| Guidance and manufacturer's declaration-electromagnetic emissions | | |
|--|------------|---|
| The M-615 Wheel Chair Scale is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment. | | |
| Emission test | Compliance | Electromagnetic environment-guidance |
| RF emissions CISPR 11 | Group 1 | The device uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment. |
| RF emissions CISPR 11 | Class B | The device is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes. |
| Harmonic emissions IEC 61000-3-2 | Class A | |
| Voltage fluctuations /flicker emissions IEC 61000-3-3 | Compliance | |

| Guidance and manufacturer's declaration-electromagnetic immunity | | | |
|--|--|--|--|
| The M-615 Wheel Chair Scale is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment. | | | |
| Immunity test | IEC 60601 test level | Compliance level | Electromagnetic environment-guidance |
| Electrostatic discharge(ESD) IEC 61000-4-2 | <u>± 8 kV contact</u> <u>± 2 kV, ± 4 kV, ± 8 kV, ± 15 kV air</u> | <u>± 8 kV contact</u> <u>± 2 kV, ± 4 kV, ± 8 kV, ± 15 kV air</u> | Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30% |
| Electrical fast transient/burst IEC 61000-4-4 | ± 2kV for power supply lines + 1kV for input/output lines | + 2kV for power supply lines + 1kV for input/output lines | Mains power quality should be that of a typical commercial or hospital environment. |
| Surge IEC 61000-4-5 | ± 1kV line(s) to line(s) ± 2kV line(s) to earth | + 1kV line(s) to line(s) + 2kV line(s) to earth | Mains power quality should be that of a typical commercial or hospital environment. |
| Voltage Dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11 | <u>0% UT for 0.5 cycle</u> <u>0% UT for 1 cycle</u> <u>70% UT(30% dip in UT) for 25 cycles</u> <u>0% UT for 5 s</u> | <u>0% UT for 0.5 cycle</u> <u>0% UT for 1 cycle</u> <u>70% UT(30% dip in UT) for 25 cycles</u> <u>0% UT for 5 s</u> | Mains power quality should be that of a typical commercial or hospital environment. If the user of the device requires continued operation during power mains interruptions, it is recommended that the device be powered from an uninterruptible power supply or a battery. |
| Power frequency(50/60 Hz) magnetic field IEC 61000-4-8 | <u>30 A/m</u> | <u>30 A/m</u> | The device power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment. |
| NOTE UT is the a.c. mains voltage prior to application of the test level. | | | |

| Guidance and manufacturer's declaration-electromagnetic immunity | | | |
|---|----------------------|------------------|--------------------------------------|
| The M-615 Wheel Chair Scale is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that is used in such an environment. | | | |
| Immunity test | IEC 60601 test level | Compliance level | Electromagnetic environment-guidance |

| | | | |
|-------------------------------|---|--|--|
| Conducted RF IEC 61000-4-6 | 3 Vrms 150 KHz to 80 MHz | 3 Vrms 150 KHz to 80 MHz | Portable and mobile RF communications equipment should be used no closer to any part of the device including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance: $d = 1,2 \sqrt{P}$ $d = 1,2 \sqrt{P}$ 80MHz to 800 MHz $d = 2,3 \sqrt{P}$ 800MHz to 2,5 GHz Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in metres (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey ^a , should be less than the compliance level in each frequency range ^b . Interference may occur in the vicinity of equipment marked with the following symbol:  |
| Radiated RF IEC 61000-4-3 | <u>6 V in ISM bands between 0,15 MHz and 80 MHz 80 % AM at 1 kHz</u> 3 V/m 80MHz to 2,7 GHz | <u>6 V in ISM bands between 0,15 MHz and 80 MHz 80 % AM at 1 kHz</u> 3 V/m <u>80MHz to 2,7 GHz</u> | |

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

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

- a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the device is used exceeds the applicable RF compliance level above, the device should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the device.
- b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

Recommended separation distance between portable and mobile RF communications equipment and the M-615 Wheelchair Scale

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

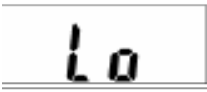






| Rated maximum output power of transmitter W | Separation distance according to frequency of transmitter m | | |
|--|---|--|---|
| | 150 kHz to 80 MHz $d = 1,2\sqrt{P}$ | 80 MHz to 800 MHz $d = 1,2\sqrt{P}$ | 800 MHz to 2,5 GHz $d = 2,3\sqrt{P}$ |
| 0,01 | 0,12 | 0,12 | 0,23 |
| 0,1 | 0,38 | 0,38 | 0,73 |
| 1 | 1,2 | 1,2 | 2,3 |
| 10 | 3,8 | 3,8 | 7,3 |
| 100 | 12 | 12 | 23 |



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

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

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

Error Messages

| | |
|--|--|
| <p>Low Battery The scale's alkaline AA type batteries are flat; please replace the batteries.</p> |  |
| <p>Overload This indicates that the scale's load sensor(s) have been overloaded. Reduce the loading and retry.</p> |  |
| <p>Counting Error</p> <ol style="list-style-type: none"> The signal from the load cells is too high. Please remove any weight from the scale and try to power on again. If the scale continues to show the error message, it indicates a fault with the electronics or wiring. The signal from the load cells is too low. Please remove any weight from the scale and try again. If the scale continues to show the error message, it indicates a fault with the electronics or wiring. |   |
| <p>High/Low Zero Count</p> <ol style="list-style-type: none"> The scale is above its zero range. Please remove any weight from the scale and power on again. If the scale continues to show the error message, it indicates a fault with the electronics. The scale is below its zero range. Check there is nothing jammed underneath the scale and power on again. If the scale continues to show the error message, it indicates a fault with the electronics. |   |
| <p>EEPROM Error This indicates there is a fault with the scale's software and is normally caused by a fault with the load cell or wiring. Contact your local service representative.</p> |  |

| | |
|---|--|
| <p>EU Authorized Representative:</p> |  <p>Obelis s.a. Bd Général Wahis, 53 B-1030 Brussels Belgium</p> |
| <p>Distributor:</p> | <p>MARSDEN</p> <p>Marsden Weighing Machine Group Ltd, Unit 1, Genesis Business Park, Sheffield Road, Rotherham, UK, S60 1DX</p> |
| <p>EU Importer:</p> | <p>MARSDEN</p> <p>Marsden Weighing Machine Group Europe Ltd, The Black Church, St. Mary's Place, Dublin 7, Dublin, Ireland, D07 P4AX</p> |
| <p>Manufactured by:</p> |  <p>Charder Electronic Co., Ltd. No.103, Guozhong Rd., Dali Dist., Taichung City 41262 ,Taiwan (R.O.C.)</p> |

EU Declaration of Conformity

The Non-Automatic Weighing Instrument

III

| | |
|----------------------------------|-----------------------------|
| Manufacturer | Charder Electronic Co., Ltd |
| Model | M-615 |
| EC Type Approval Certificate No. | T7616 |

The Metrological Aspects of Non-Automatic Weighing Instruments

| | |
|-------------------------|-----------------------------|
| EN45501:2015 (module D) | Notified Body Number – 0122 |
| EN45501:2015 (module B) | Notified Body Number – 0122 |

The non-automatic weighing instrument corresponds to the production model described in the EC Type Approval Certificate and requirements of the following EC Directives:

| | |
|------------|--|
| 2014/31/EU | Non-Automatic Weighing Instruments Directive |
| 2014/30/EU | Electromagnetic Compatibility Directive |
| 2014/35/EU | Low Voltage Directive |

The applicable harmonized standards are:

| | |
|-------------------------|---|
| EN45501:2015 | The Metrological Aspects of Non-Automatic Weighing Machines |
| EN 61000-3-2:2014 | Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current \leq 16 A per phase) |
| EN 61000-3-3:2013 | Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current \leq 16 A per phase and not subject to conditional connection |
| EN 62368-1:2014/AC:2015 | Audio/video, information and communication technology equipment - Part 1: Safety requirements (IEC 62368-1:2014, modified) |

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Date: Jun.09.2021

Signature: *Victor Lai*

Name: Victor Lai
Position: Measuring Management Rep.
Place: Taichung, Taiwan

Manufacturer: Charder Electronic Co., Ltd.

Address: NO.103, Guozhong Rd., Dali Dist., Taichung City 412, Taiwan (R.O.C.)

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