



# MARSDEN

The Weighing Company

## OPERATION MANUAL

### MPWS-300



PLEASE TAKE THE TIME TO READ THESE INSTRUCTIONS BEFORE  
STARTING TO USE THE SCALES



WHEN WEIGHING A PATIENT IN A WHEELCHAIR THIS SCALE SHOULD ONLY BE USED UNDER CLOSE SUPERVISION

WE WOULD ADVISE YOU TO PUSH THE WHEELCHAIR ON TO THE SCALE AND WHEN FINISHED PULL THE WHEELCHAIR OFF THE SCALE

ENSURE THE SCALE IS LOCATED ON FLAT LEVEL GROUND AND TRY NOT TO USE ON THICK CARPETS

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## PRODUCT SPECIFICATION

MODEL	MPWS-300
ACCURACY CLASS	CLASS III
CAPACITY	300kg
INCREMENT	100g
BATTERY TYPE	7.2V 1200mah
MAINS ADAPTOR	12V 300ma
UNIT WEIGHT	8.5kg

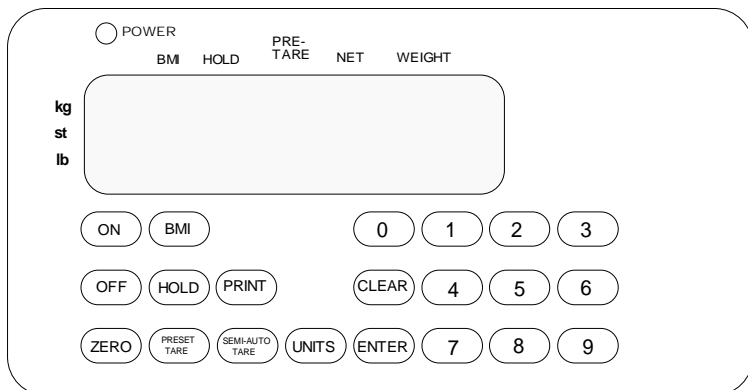
## MAINTENANCE AND GENERAL CARE

- Repairs and Servicing should only be carried out by authorised service agents.
- There are no user serviceable parts in the weighing scale itself.
- The mains power adaptor contains 2 fuses, 1 internal that is not accessible and 1 external user replaceable fuse. The fuse value is T400mA and no other fuse value should be used.
- When the adaptor is plugged in to the mains supply a Green LED should illuminate to indicate that the adaptor is functioning correctly. If the LED does not illuminate then the external fuse should be checked by competent personnel.
- There are no other user serviceable parts inside the mains adaptor.
- The weight indicator contains an internal rechargeable battery pack; this should only be replaced by authorised service agents. Under normal operating conditions the batteries should last for several years.
- We would recommend using alcohol based wipes or similar when cleaning the scales.
- Please do not use large amounts of water when cleaning the scales as this will cause damage to the scales electronics, you should also refrain from using corrosive liquids or high pressure washers.
- Always disconnect the scales from the mains power supply before cleaning.

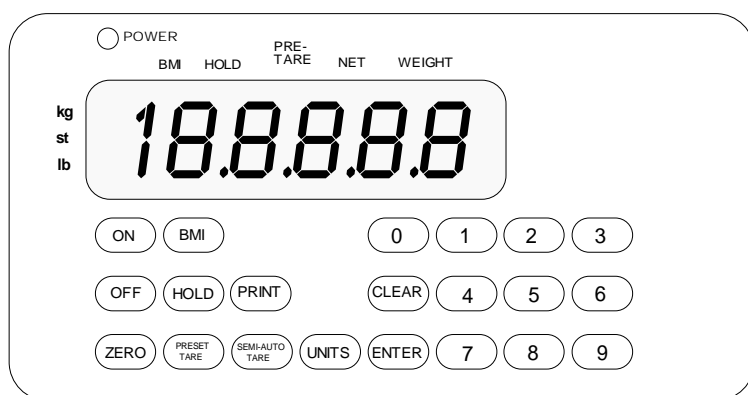
# OPERATOR INSTRUCTIONS - 21 KEY VERSION

## SECTION 1 - BASIC FUNCTIONS

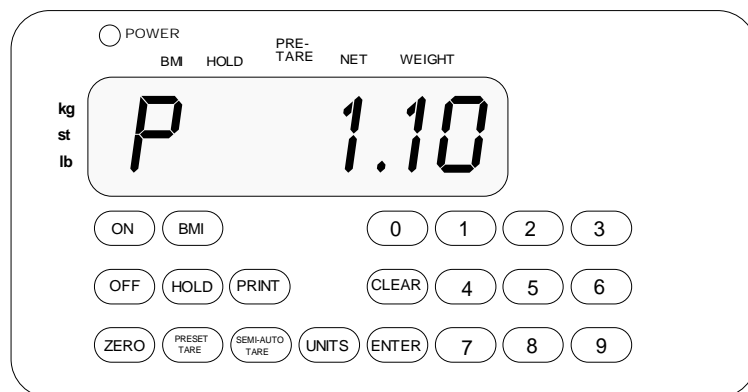
### 1.1 - SWITCHING ON THE SCALE



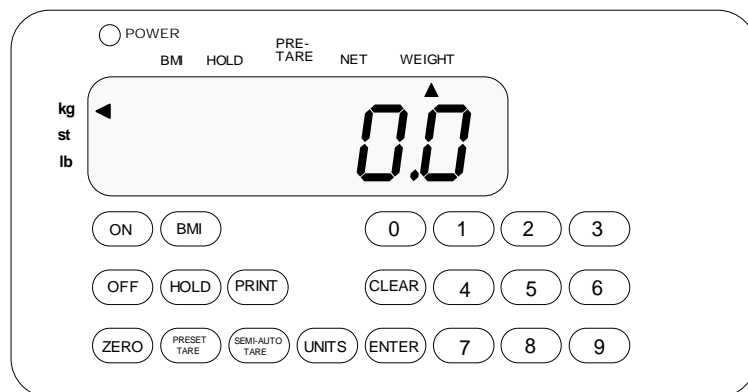
**PRESS THE ON BUTTON FIRMLY**



**THE SCALE WILL FIRST TEST ALL OF THE DISPLAY SEGMENTS**



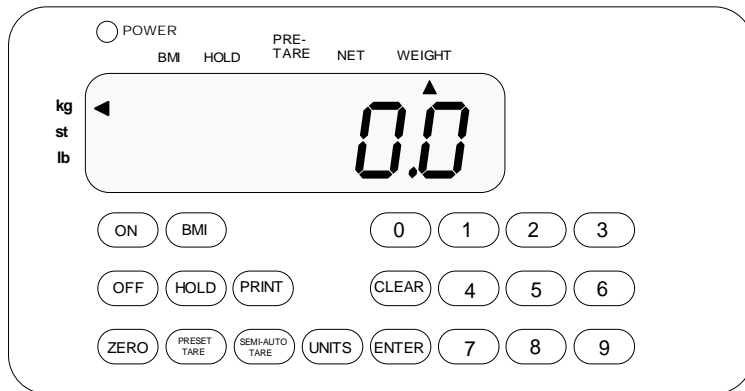
**THE SCALE WILL NOW SHOW IT'S CURRENT SOFTWARE VERSION No**



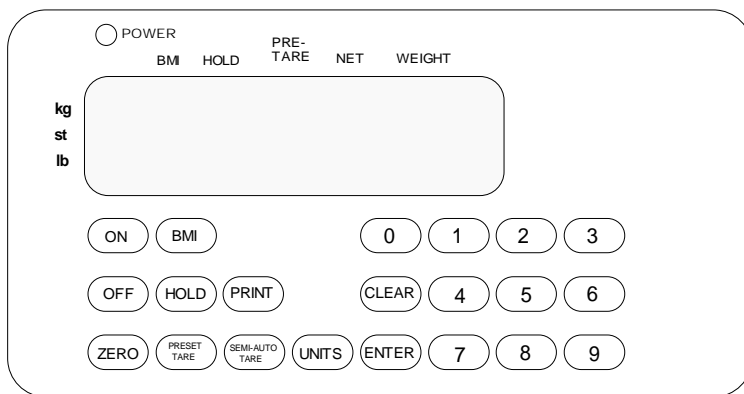
**THE SCALE WILL NOW GO INTO WEIGHING MODE AND SHOULD SHOW 0.0kg ON THE DISPLAY**

# SECTION 1 - BASIC FUNCTIONS

## 1.2 - SWITCHING OFF THE SCALE

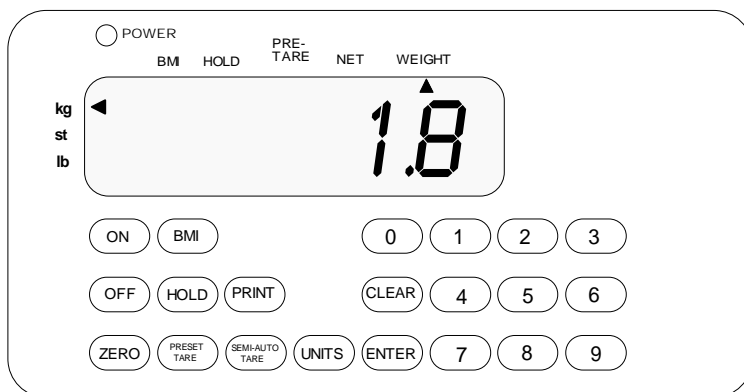


**PRESS THE OFF BUTTON**



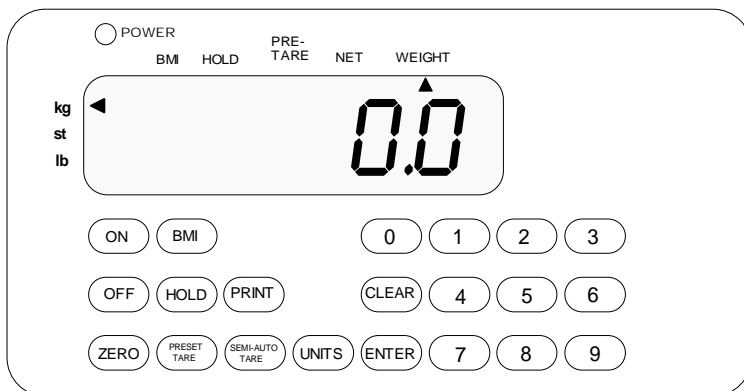
**THE SCALE WILL POWER DOWN**

## 1.3 - SETTING THE SCALE TO ZERO



**IF FOR SOME REASON THE SCALE SHOWS A READING OTHER THAN 0.0kg THEN IT CAN BE RESET TO ZERO**

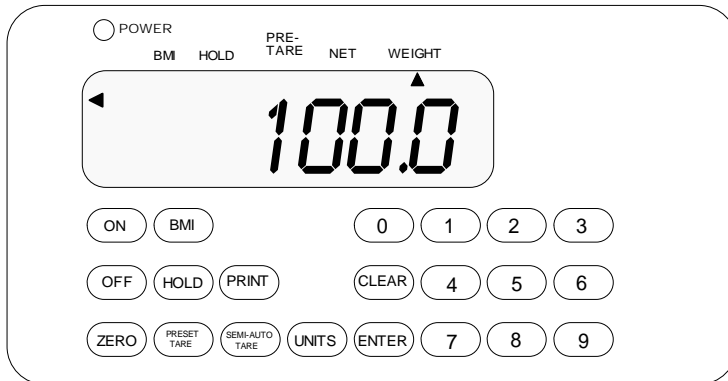
**PRESS THE ZERO KEY ONCE**



**THE SCALE WILL RETURN TO 0.0kg**

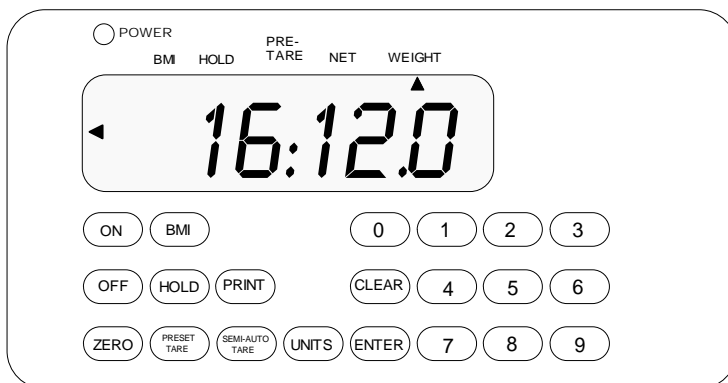
# SECTION 1 - BASIC FUNCTIONS

## 1.4 - UNIT SWITCHING



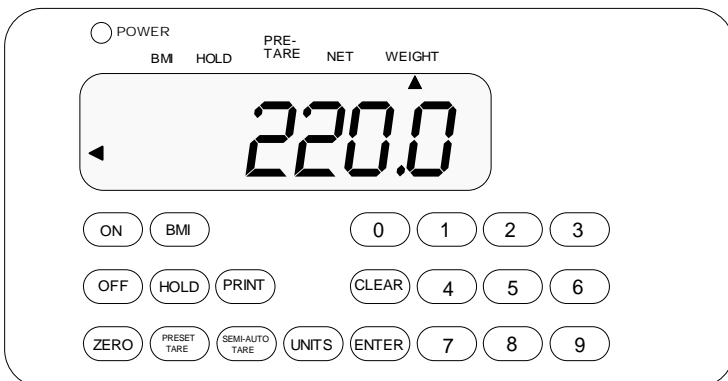
**THE DEFAULT SETTING IS KG**

**PRESS THE UNIT KEY ONCE**



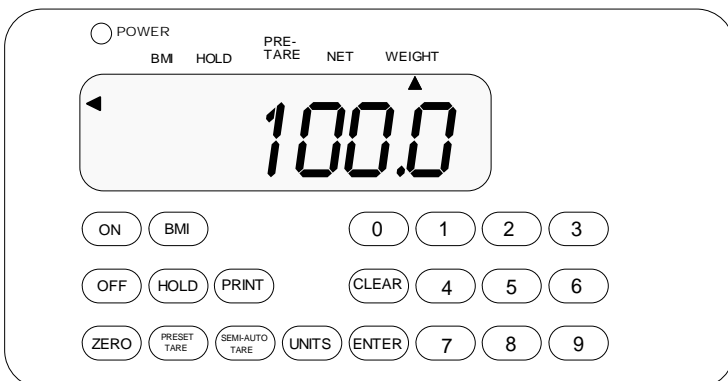
**THE SCALE SWITCHES TO STONES**

**PRESS THE UNIT KEY ONCE**



**THE SCALE SWITCHES TO POUNDS**

**PRESS THE UNIT KEY ONCE**

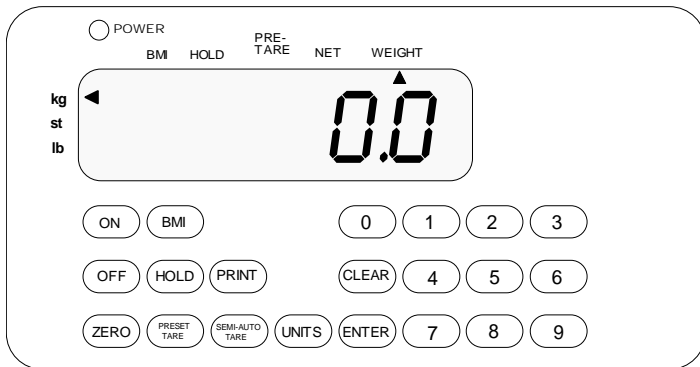


**THE SCALE NOW RETURNS TO KG**

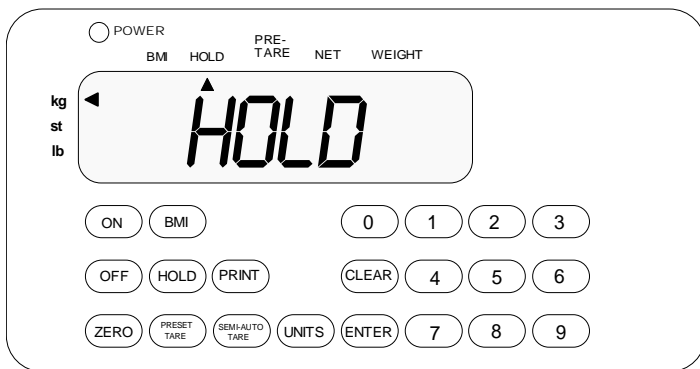
NOTE: UNIT SWITCHING IS NOT ALWAYS AVAILABLE, WEIGHING IN STONES AND POUNDS FOR THE PURPOSES OF MONITORING, TREATMENT OR DIAGNOSES OF PATIENTS WAS MADE ILLEGAL ON THE 1ST JANUARY 2003. IF YOUR SCALE HAS THE GREEN M STICKER THEN ONLY KG WILL BE AVAILABLE

## SECTION 2 - ADVANCED FUNCTIONS

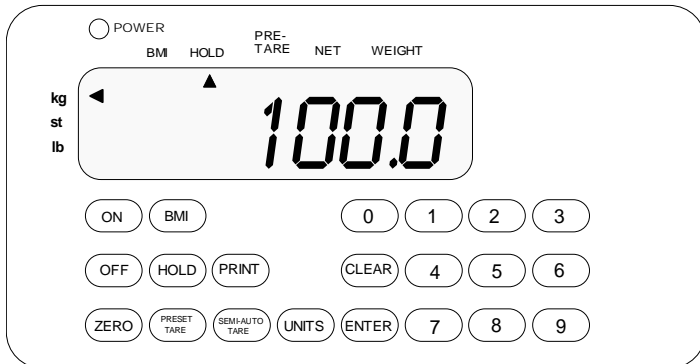
### 2.1 - HOLD FUNCTION



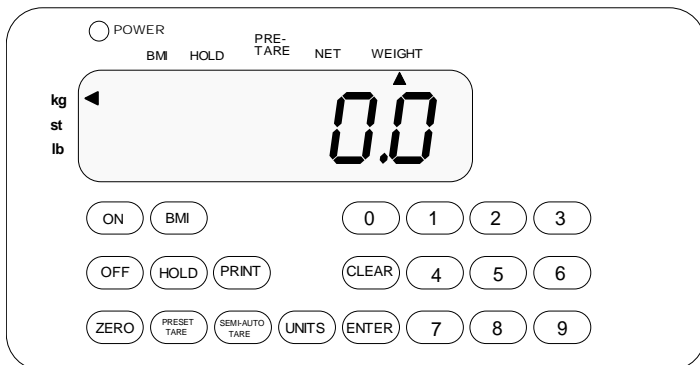
**PRESS THE HOLD BUTTON ONCE**



**THE PERSON SHOULD NOW GET ON TO THE SCALES**



**AFTER A FEW SECONDS THE SCALE WILL LOCK ON THE PERSONS WEIGHT, THE PERSON CAN NOW STAND OFF THE SCALE AND THE WEIGHT WILL REMAIN**

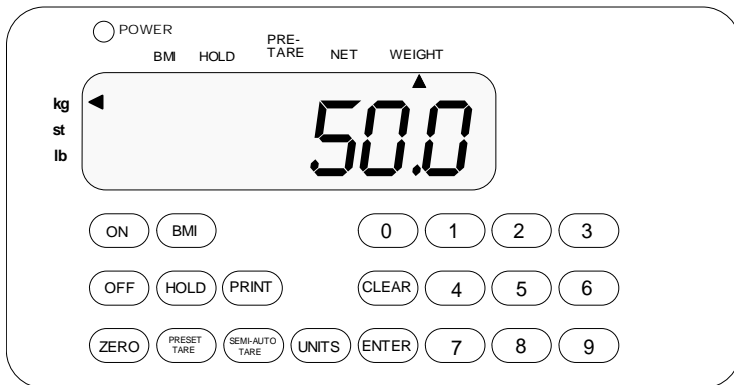


**PRESS HOLD AGAIN TO UNLOCK THE WEIGHT AND RETURN TO 0.0kg**



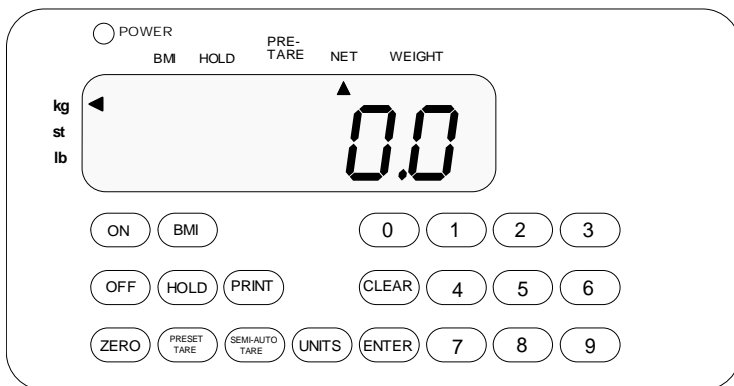
## SECTION 2 - ADVANCED FUNCTIONS

### 2.2 - SEMI AUTO TARE FUNCTION

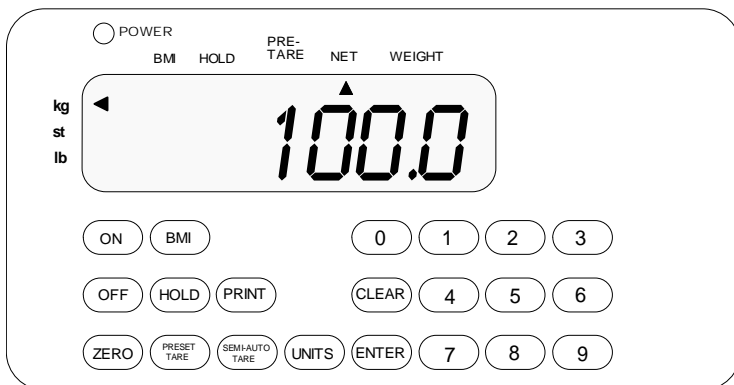


**PLACE THE PATIENTS WHEELCHAIR ON THE SCALE, IT WEIGHS 50.0kg AND THE PATIENT WEIGHS 100.0KG**

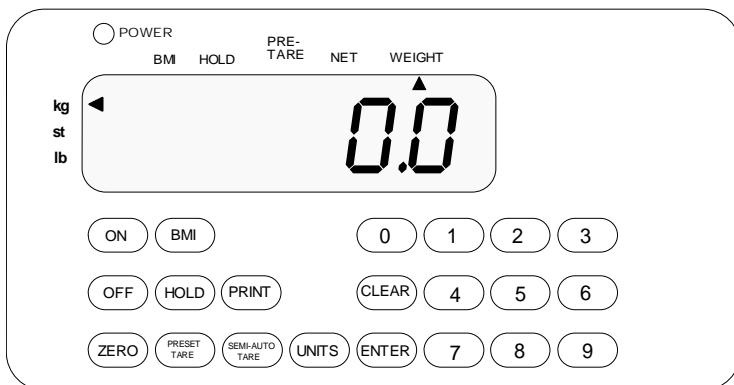
**PRESS THE SEMI-AUTO TARE KEY AND THE WHEELCHAIR WEIGHT WILL BE ZEROED AS BELOW**



**THE WHEELCHAIR WEIGHT IS SET TO 0.0KG AND THE NET LEGEND LIGHTS.**



**YOU CAN NOW PLACE THE PATIENT INTO THE WHEELCHAIR AND PUSH THEM ONTO THE SCALES, THE WEIGHT SHOWN WILL BE THE PATIENTS WEIGHT MINUS THE WEIGHT OF THE WHEELCHAIR, THIS IS KNOWN AS A NET WEIGHT**



**REMOVE THE PATIENT AND WHEELCHAIR FROM THE SCALES**

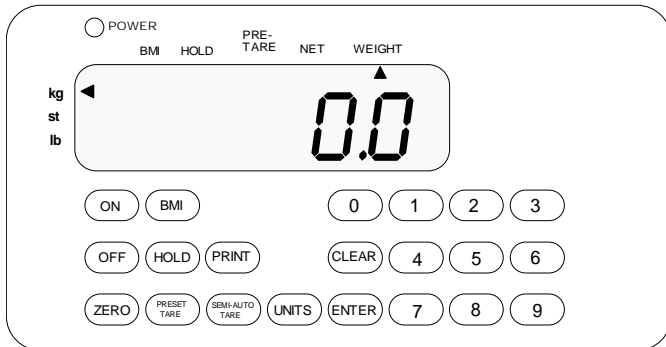
**THEN PRESS SEMI-AUTO TARE TO RESET THE SCALE TO ZERO**

**GROSS WEIGHT = WHEELCHAIR + PATIENT  
NET WEIGHT = PATIENT ONLY  
TARE WEIGHT = WHEELCHAIR ONLY**

## SECTION 2 - ADVANCED FUNCTIONS

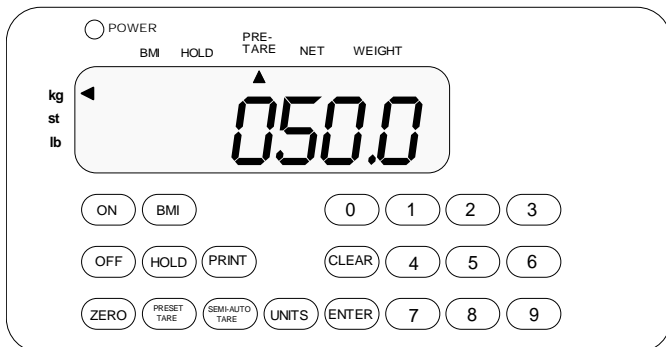
### 2.3 - PRESET TARE FUNCTION

**FOR THIS EXAMPLE WE WILL TARE THE WEIGHT OF A PATIENTS WHEELCHAIR**



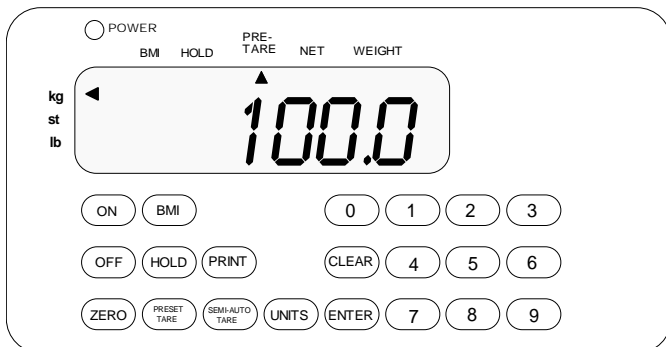
**WE ALREADY KNOW THAT THE WHEELCHAIR WEIGHS 50.0KG**

**PRESS THE PRESET TARE KEY**

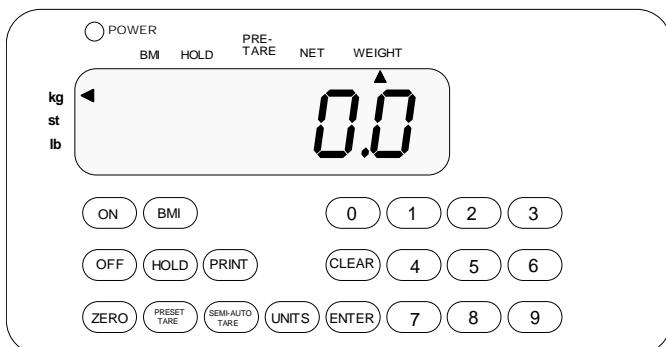


**THE SCALE WILL ENTER TARE WEIGHT ENTRY MODE AS SHOWN ON THE LEFT**

**USING THE NUMERIC KEYS ENTER THE KNOWN WEIGHT OF THE WHEELCHAIR, 50.0 THEN PRESS THE ENTER KEY**



**YOU CAN NOW PLACE THE PATIENT INTO THE WHEELCHAIR AND PUSH THEM ONTO THE SCALES, THE WEIGHT SHOWN WILL BE THE PATIENTS WEIGHT MINUS THE WEIGHT OF THE WHEELCHAIR, THIS IS KNOWN AS A NET WEIGHT**



**REMOVE THE PATIENT AND WHEELCHAIR FROM THE SCALES**

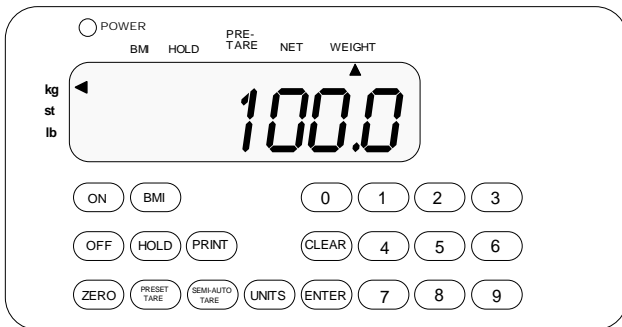
**THEN PRESS PRESET TARE TO RESET THE SCALE TO ZERO**

**GROSS WEIGHT = WHEELCHAIR + PATIENT  
NET WEIGHT = PATIENT ONLY  
TARE WEIGHT = WHEELCHAIR ONLY**

## SECTION 2 - ADVANCED FUNCTIONS

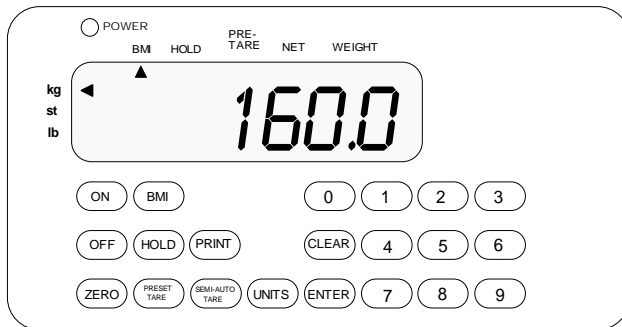
### 2.4 - BMI (BODY MASS INDEX) FUNCTION

FOR THIS EXAMPLE WE WILL ASSUME WE HAVE A PERSON WEIGHING 100kg AND 180.0cm TALL

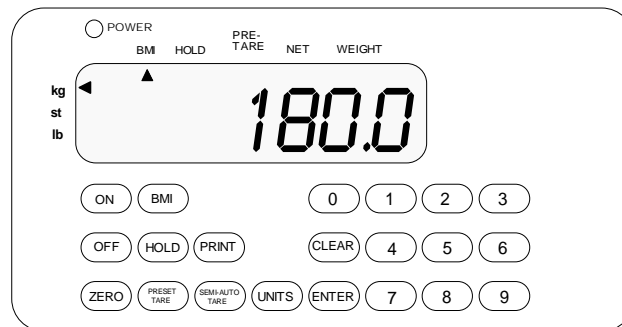


**PLACE THE PERSON ON THE SCALE**

**PRESS THE BMI BUTTON ONCE**

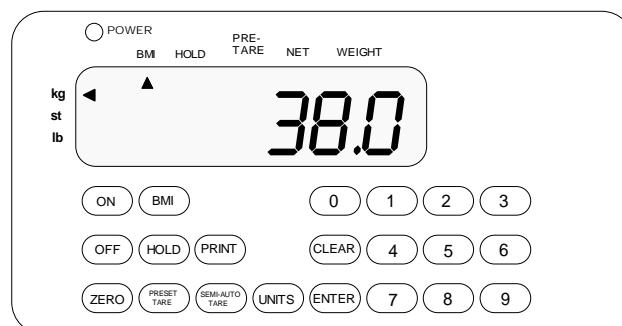


**THE SCALE WILL NOW GO INTO HEIGHT ENTRY MODE AND THE FIRST DIGIT WILL FLASH - THE PERSON BEING WEIGHED CAN STEP OFF THE SCALE AT THIS POINT**



**USING THE NUMERIC KEYPAD ENTER THE HEIGHT OF THE PERSON IN CM**

**WHEN FINISHED PRESS THE ENTER BUTTON AND THE PERSONS BMI FIGURE WILL BE SHOWN AS BELOW**



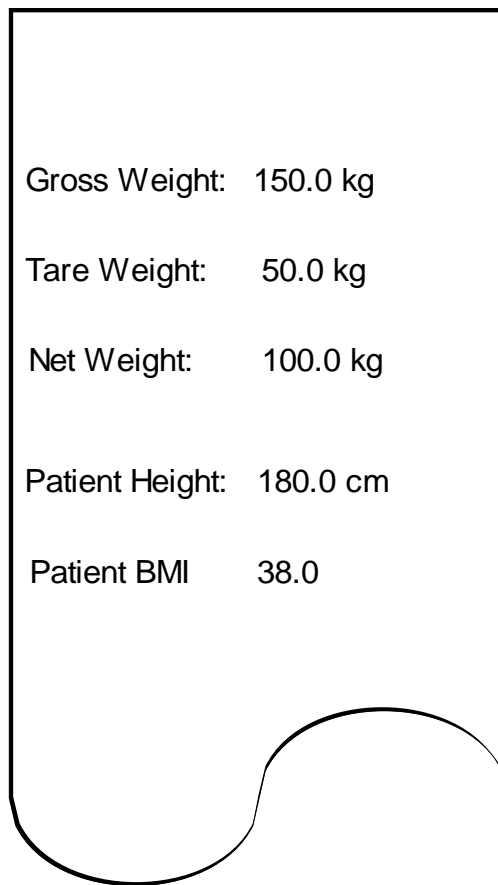
**PRESS THE BMI BUTTON ONCE TO RETURN TO NORMAL WEIGHING MODE**

## SECTION 2 - ADVANCED FUNCTIONS

### 2.5 PRINT FUNCTION

**AN OPTIONAL EXTERNAL PRINTER IS AVAILABLE FOR ALL MODELS, WHEN FITTED THE PATIENTS WEIGHT, HEIGHT, AND BMI RESULT CAN BE PRINTED ON TO A PAPER ROLL.**

**ONCE THE PERSON HAS BEEN WEIGHED AND THERE BMI CALCULATED, SIMPLY PRESS THE PRINT KEY TO PRODUCE THE FOLLOWING TICKET**





## ROHS COMPLIANCE

EU Directive 2002/95/EC restricts the use of the 6 substances below in the manufacture of specified types of electrical equipment.

- The products do not contain any of the restricted substances in concentrations and applications banned by the directive;
- and for components, the product is capable of being worked on at higher temperatures required by lead-free soldering

The restricted substances and maximum allowed concentrations in the homogenous material are, by weight:

<b>Substance</b>	<b>Concentration</b>
Lead	0.1%
Mercury	0.1%
PBB (Polybrominated Biphenyls)	0.1%
PBDE (Polybrominated Diphenyl Ethers)	0.1%
Hexavalent Chromium	0.1%
Cadmium	0.01%

## PRODUCT CONFORMITY

Harmonised Standards to Which Conformity is Declared –

EN60601-1-2 / EN60950 / EN55022 / EN50082-1

89/336/EEC – Electromagnetic Compatibility Directive

73/23/EEC – Low Voltage Directive

93/42/EEC – Medical Devices Directive

90/384/EEC – Non Automatic Weighing Instrument Directive

# CE 0120

## ERROR MESSAGES

<b>LO</b>	The internal battery is low on charge, charge the scale
<b>ERRL</b>	Indicates that the signal from the load cell/s is too low * <sub>1</sub>
<b>ERR</b>	Indicates that the signal from the load cell/s is too high * <sub>1</sub>
<b>ERRP</b>	Indicates that there is a fault with the scales software * <sub>1</sub>
<b>000000</b> At top of LCD Display	Indicates that the signal from the load cell/s is above the Zero Range * <sub>2</sub>
At bottom of LCD Display <b>000000</b>	Indicates that the signal from the load cell/s is below the Zero Range * <sub>2</sub>

\*1 – These errors are normally caused by a serious fault on the scales such as a faulty load cell or wiring. You should contact our Service Department.

\*2 – These errors are usually less serious and can be rectified by re-calibration, however they can indicate an underlying problem with the scales. Zero Range is set to 10% of Scale Capacity E.g. Capacity 200.0kg = Zero Range +/-20.0kg



# MARSDEN

The Weighing Company

**FREEPHONE: 0800 169 2775**

<b>HEAD OFFICE: SALES, SERVICE, MARKETING AND ACCOUNTS</b>	47 Market Place Henley-on-Thames Oxfordshire RG9 2AD
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**Telephone:** 0845 130 7330

**Fax:** 0845 130 7440

<b>NORTHERN OFFICE: DESPATCH, PRODUCTION AND TECHNICAL SUPPORT</b>	Unit 7 Centurion Business Park Coggin Mill Way Rotherham S60 1FB
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**Telephone:** 01709 364296

**Fax:** 01709 364293

# **PRODUCT GUARANTEE**

**This guarantee covers all products manufactured and supplied by Marsden Weighing Machine Group Ltd for a period of 12 months from the date of purchase.**

## **The Guarantee Promise**

**We, Marsden Weighing Machine Group Ltd, guarantee that should this product prove to be defective by reason of faulty material or workmanship within the stated guarantee period, we will repair, or at our discretion, replace the defective material/part free of charge on condition that:**

- 1. We are, at our discretion, afforded the opportunity to examine the product either on site or at our premises prior to repair / replacement.**
- 2. The product has been used in accordance with the installation, operating and maintenance instructions and has not been tampered with or otherwise been subjected to misuse, neglect, modification or accident.**
- 3. Evidence of the date of purchase is supplied in the form of an official receipt of purchase.**
- 4. The product and/or defective materials and parts shall become the property of Marsden Weighing Machine Group Ltd once replaced.**

## **Exclusions**

- 1. Recalibration of products - Unless repair or replacement has been carried out as set out above then recalibration is not covered by this guarantee. (We would recommend you take out a service/calibration contract to ensure the continued accuracy of the products).**
- 2. Mains Adaptors are not covered by this guarantee.**

***This Guarantee does not affect your statutory rights***