

**MUW HEALTH AND FITNESS SCALE
USER MANUAL**

(P.N. 7.00.6.6.0229 Revision B – Aug 2017)



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1.0 INTRODUCTION

The MUW Health and Fitness scale provides the weight and height of a patient before calculating the BMI based on the results. Each result will be displayed on the Indicator and held until the result is cleared, the BMI result can be used to help evaluate some ones overall health. Units of weighing are Kg, Lbs, and Lbs and Ounces. Height measurements are displayed in cm, feet and inches, and inches. There is an internal rechargeable battery as well as wheels fitted to the base that make the MUW totally portable. The results can be sent to a printer or PC via the RS232 communication port, either manually or automatically.

2.0 SET UP

2.1 UNPACKING AND SETTING UP YOUR MUW

The MUW has been packed in such a way to make it quick and easy for the USER to assemble, please follow the instructions as below.

- 1) Remove the base and pillar sections from the packaging.
- 2) Lift the lower pillar section and place it with the screw holes at the rear onto the back of the base allowing for the cable to hang freely in the open area.
- 3) Fit and tighten the 4 x M5 x 15 bolts and washers through the fixing plate of the lower pillar section and into the base then slide the pillar cover down so that it locates securely. Fix the pillar cover at the rear using 2 x M4 x 10 screws.
- 4) Lift the central pillar section into position and slide it with the screw holes at the rear onto the fixing insert ensuring the cable hangs freely inside the pillar.
- 5) Fit and tighten 4 x M4 x 10 screws through the pillar and into the insert.
- 6) Lift the top pillar section into position and slide it onto the fixing insert with the sensor housing facing the front, again ensuring the cable hangs freely inside the pillar.
- 7) Fit and tighten 4 x M4 x 10 screws through the pillar and into the insert.

The MUW comes with 4 x wall fixing brackets that can be secured to the pillar before fixing to the wall. If the wall fixing brackets are being used attach these when you fix the M4 x 10 screws to the pillar fixing inserts. Fasten securely to the wall once you have selected the position the MUW will be used in.

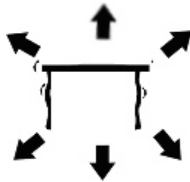
3.0 LOCATING AND PROTECTING YOUR SCALE



Avoid extremes of temperature. Do not place in direct sunlight or near air conditioning vents.



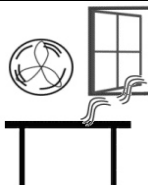
Avoid unstable power sources. Do not use near large users of electricity such as welding equipment or large motors. Do not let the balance battery go flat. If you are not using it for a long time you should charge the battery periodically to make sure the battery does not lose its charge.



Keep free from vibration. Do not place near heavy or vibrating machinery.



Avoid high humidity that might cause condensation. Keep away from direct contact with water. Do not spray or immerse the balance in water.

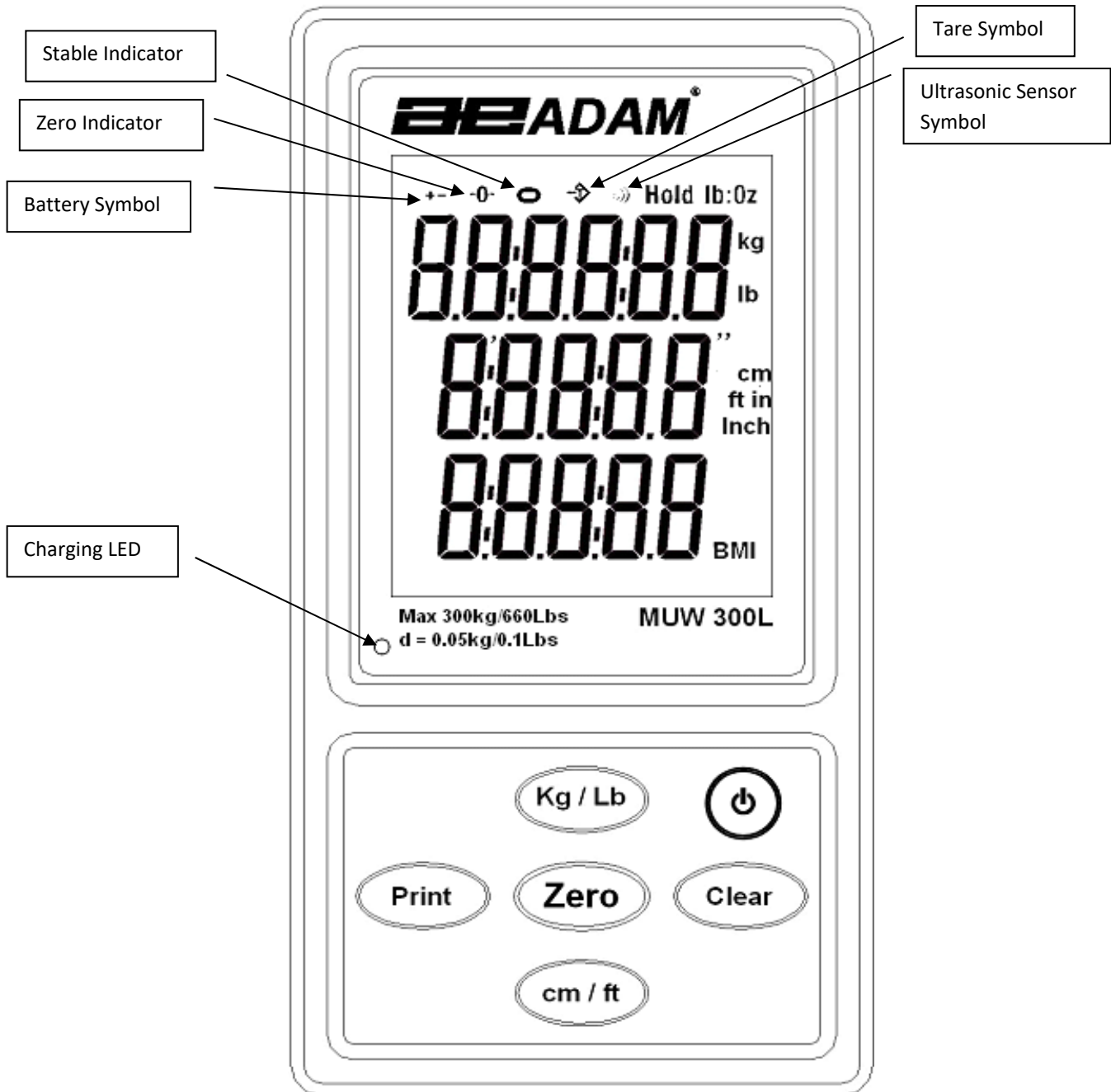






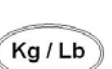
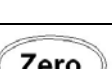
Do not place near open windows, air-conditioning vents or fans that may cause a draft and unstable readings.

Keep the scale clean. Do not stack material on the top pan when it is not in use.

4.0 KEYPAD / DISPLAY FUNCTION

The keypad and display have a number of features as shown and explained below:



KEYS	PRIMARY FUNCTION	SECONDARY FUNCTION
	To turn the scale On or Off.	
	To clear the readings on the display ready for the next weighing	
	To change the displayed height reading between cm, feet or feet and inches	To save and escape back to the parameter settings
	To send a command to print the current displayed readings	To change the setting when in a USER parameter
	To change the displayed weight reading between Kg, Lb's or Lb's and Ounces	To change the USER parameter
	To Zero the scale before weighing To Tare any item to obtain net weight	To enter the selected setting when in a USER parameter

4.1 REAR PANEL

The rear panel has a connector input for the external power adaptor (12 volts DC @800ma).

4.2 INTERNAL RECHARGEABLE BATTERY

The scale can be operated from the internal rechargeable battery or using an adapter. The battery life is approximately 24 hours with the backlight off. Depending on the usage of the backlight the lifetime of the battery will reduce.

The display will show an indication when the battery needs to be charged. To charge the battery plug the adapter into the POWER input socket in the rear panel and connect it to the mains power supply. The charging indicator in the lower left corner of the LCD will be on to show it is charging and will turn green when the battery is fully charged.

5.0 BASIC OPERATION

5.1 SWITCHING THE BALANCE ON

Plug in the unit using the adapter or use the internal rechargeable battery. It is recommended that you charge the battery for at least 8 hours before first use.

- 1) To turn on press the **[On/Off]** key once and release. The scale will show the software revision, the battery voltage, and then a self-test before showing the stable sign and zero weight on the display.
- 2) The scale can now be used.
- 3) To turn the scale off after use press the **[On/Off]** key again. There is an auto power-off function that will automatically turn the unit off if not used for a period of time. This can be set in the parameters section 6.0.

5.2 ZEROING

You can press the **[Zero]** key to set a new zero point and show a zero reading. This may be necessary if the weight reading is not indicating zero with nothing on the platform, and should be done if required before each new weighing takes place. The zero indicator will show up in the upper left corner of the LCD when the scale displays Zero.

5.3 WEIGHING UNITS

To change the displayed weighing unit, press the **[kg/lb]** key which will then cycle you through the available options of weighing units. This can only be done before or after a weighing takes place.

5.4 HEIGHT UNITS

To change the displayed height measuring unit, press the **[cm/ft]** key which will then cycle you through the available options of height measuring units. This can only be done before or after a weighing takes place.

5.5 WEIGHING/HEIGHT/BMI

To determine a person's weight, height and BMI the patient should stand on the platform within the marked area and look straight ahead. The ultrasonic sensor will detect that a person is on the platform signified by the symbol in the upper right part of the display and start to determine the height. When a stable reading of weight is obtained the three readings will be displayed.



The results will remain on the display until the [Clear] key is pressed.

Results from a BMI measurement can be determined as the table below.

BMI	Weight Status
Below 18.5	Underweight
18.5 – 24.9	Normal
25.0 – 29.9	Overweight
30.0 and Above	Obese

Mother and Baby weighing function

The MDW scale allows users to weigh the mother and then weigh the baby being held in the mother's arms. To operate the function, have the mother step on the weighing pan and wait for the weight to be stable.

Then press the Tare button. The display should read Zero.

Have the mother hold the baby in her arms whilst she stands on the scale. The weight displayed then is the weight of the baby.

The mother can now get off the scale. Press the Tare button to clear the mother's weight from the memory.

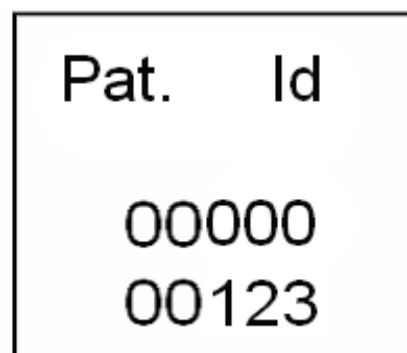
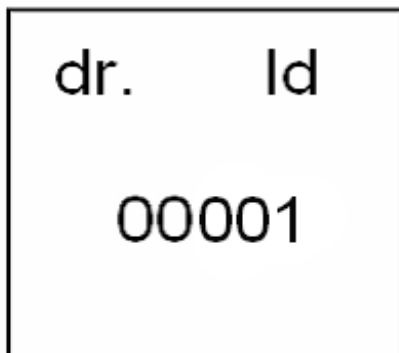
5.6 PRINTING AND OUTPUTTING THE RESULTS

If a printer or other data collection device is being used the results will be sent automatically or manually depending on the printing control set up. The data transmission speed must be set correctly to allow the results to be received.

The Doctor and patients identity number can be programmed into the Indicator to give you a traceable record which also records date and time.

To enter the Doctors Id press and hold the **[Print]** key for 2 seconds. The display will show as below, use the **[Print]** and **[Clear]** keys to move the flashing digit and the **[kg/lb]** and **[cm/ft]** keys to enter the Id number you require and press **[Zero]** to save.

The display will now show the Patients Id screen, use the keys as above to set the Id number and press **[Zero]** to save and exit back to normal weighing.



See section 6.3 and 6.4 for printing controls and data transmission speed options

5.7 CLEARING A PREVIOUS RESULT

Once the results have been calculated and displayed they will remain displayed until the **[Clear]** key is pressed. When the patient has stepped off the platform and the results have been recorded or printed, the **[Clear]** key can then be pressed which will return the display to zero ready for the next patient to be weighed.

6.0 PARAMETERS

The balance has 8 parameters where options can be set by the user.

FUNCTION	SECTION	DESCRIPTION
F1 EL	See section 6.1	Sets the backlight operation Default is AUTO
F2 OFF	See section 6.2	Auto off function Default is 10
F3 SER	See section 6.3	Sets the printing control and data transmission speed Default is 9600
F4 Pt SEL	See section 6.4	Printing controls
F5 ULTRA	See section 6.5	Calibration of the height sensor
F6 HOLD	See section 6.6	Sets the HOLD function to ON or OFF
F7 D-T	See section 6.7	Setting the date and time
F8 SETUP	See section 6.8	Set up parameters
F9 TECH	Service only	

6.1 SETTING THE BACKLIGHT OPERATION **F1 EL**

The backlight function can be set by the user.

AUTO	Sets the backlight to operate automatically when a weight is placed on the platform or a key is pressed.
OFF	Sets the backlight to be on at all times.
ON	Sets the backlight to be off at all times.

- 1) Switch on the scale then press the **[kg/lb]** key during the self-checking test of the display.
- 2) The display will show the first function **F1 EL**.

- 3) Press the **[Zero]** key to select **F1 EL** and show the current setting, default is **AUTO**.
- 4) Press the **[Print]** key to change the setting for the backlight and press **[Zero]** to save, then **[kg/lb]** to select the next parameter.

6.2 SETTING AUTO OFF F2 OFF

An automatic power down time can be set so that the MUW turns off after a period where no activity is detected. This preserves the life time of the battery when used in this mode.

Settings are OFF, 5, 10, 20, and 30 minutes.

- 1) Switch on the scale then press the **[kg/lb]** key during the self-checking test of the display.
- 2) The display will show the first function **F1 EL**.
- 3) Press the **[kg/lb]** key to select **F2 OFF** and then **[Zero]** to enter and show the current setting, default is **10**.
- 4) Press the **[Print]** key to change the setting for the backlight and press **[Zero]** to save, then **[kg/lb]** to select the next parameter.

6.3 SETTING THE PRINTING CONTROLS F3 SER

The MUW can be set to automatically print "AUTO", or print on demand "PrN" by pressing the **[Print]** button.

The data transmission speed "Bps" of the MUW must match that of the Printer or other device being used to collect data information successfully.

The printing control and speed can be selected as follows.

- 1) Switch on the scale then press the **[kg/lb]** key during the self-checking test of the display.
- 2) The display will show the first function **F1 EL**.
- 3) Press the **[kg/lb]** key to select **F3 SER** and then **[Zero]** to enter and show the current printing control setting "UArt".

- 4) Either printing on demand (PrN), pressing the **[Print]** key following a weighing, or printing automatically (AUTO), automatically prints out when a stable reading and BMI calculation is displayed can be selected.
- 5) Press the **[Print]** key to change the setting for the printing control and press **[Zero]** to save.
- 6) The current setting for data transmission speed “Bps” will now be displayed.
600, 1200, 2400, 4800, 9600 are available. Default is 9600.
Press the **[Print]** key to change the setting and press **[Zero]** to save.
Test will be displayed, press the **[Print]** key to send a test print command.
- 7) Press **[Zero]** to save, **[cm/ft]** to exit, then **[kg/lb]** to select the next parameter.

6.4 PRINTING DETAIL CONTROL F4 PtSEL

The MUW can be programmed to provide a customised print out to give you the readings you require. Doctor, patient, DiSP1, DiSP2, DiSP3 details can all be enabled or disabled to suit the information you need to see.

- 1) Switch on the scale then press the **[kg/lb]** key during the self-checking test of the display.
- 2) The display will show the first function **F1EL**.
- 3) Press the **[kg/lb]** key to select **F4 PtSEL** and then **[Zero]** to enter and show the current settings.

SETTING	DESCRIPTION	SELECTIONS
dr.Id	Doctors Id number	ON/OFF
PAt.Id	Patient Id number	ON/OFF
DiSP 1	Display 1 shows the weight of the patient	ON/OFF
DiSP 2	Display 2 shows the height of the patient	ON/OFF
DiSP 3	Display 3 shows the BMI of the patient	ON/OFF
CAL	Print out following calibration	ON/OFF
d-t	Date and time	ON/OFF

- 4) Press the **[Print]** key to change the setting for the printing detail control and press **[Zero]** to save.
- 5) Press the **[kg/lb]** key to exit and continue.

6.5 ULTRASONIC HEIGHT CALIBRATION F5 ULTRA

The Ultrasonic height sensor has been factory calibrated and should not require frequent calibration. If there is a problem with height measuring proceed as below.

- 1) Switch on the scale then press the **[kg/lb]** key during the self-checking test of the display.
- 2) The display will show the first function **F1EL**.
- 3) Press the **[kg/lb]** key to select **F5 ULTRA** and then **[Zero]** to enter the sensor calibration section "AdJUST" XX (XX being a factory set figure)
- 4) Press the **[Zero]** key and the display will show "base- H 220", press **[Zero]** to calibrate the "Zero" height reading.
- 5) The display will show "test" and a 4 digit number. Press the **[Zero]** key from a position where the height sensor cannot detect you.
- 6) When calibration is complete the display will show "AdJUST XX".

If after calibration the height sensor is not measuring correctly, press **[Print]** or **[Clear]** at point 3 to change XX. A lower number will decrease the height measurement and a higher number will increase it. Then continue from point 4 on.

*A print out with date and time can be issued following every calibration.

6.6 SETTING THE HOLD FUNCTION F6 HOLD

The Hold function can be set so that the height and BMI readings are visible as they are being calculated (**OFF**), or remain as dashes until the weight reading is stable upon where they will be displayed (**ON**).

- 1) Switch on the scale then press the **[kg/lb]** key during the self-checking test of the display.
- 2) The display will show the first function **F1EL**.

- 3) Press the **[kg/lb]** key to select **F6 HOLD** and then **[Zero]** to enter and show the current setting, default is **ON**.
- 4) Press the **[Print]** key to change the setting for Hold, press **[Zero]** to save, then **[kg/lb]** to select the next parameter.

6.7 SETTING DATE AND TIME **F7D-T**

- 1) Switch on the scale then press the **[kg/lb]** key during the self-checking test of the display.
- 2) The display will show the first function **F1EL..**
- 3) Press the **[kg/lb]** key to select **F7D-T** and then **[Zero]** to enter the date setting display.
- 4) The display will show the day, month and year.
- 5) To change any setting press the **[kg/lb]** key to increment the flashing digit and either the **[Print]** or **[Clear]** key to move the flashing digit to the left or right.
- 6) Press the **[Zero]** key to save the date and enter the time setting parameter
- 7) To change the time press the **[kg/lb]** key to increment the flashing digit and either the **[Print]** or **[Clear]** key to move the flashing digit to the left or right.
- 8) Press **[Zero]** to save, **[cm/ft]** to exit then **[kg/lb]** to select the next parameter.

6.8 SET UP **F8 SETUP**

Four performance parameters, Filter, Auto Zero, Stability and weight tracking are available to the USER.

These parameters influence the speed of the display update and have been factory set, the default settings should normally be used to optimise performance.

Available parameters and settings are as below.

PARAMETER	DESCRIPTION	DEFAULT VALUE
FILT	Filter settings of 1- 6 are available 1 is the fastest filter, 3 is the slowest.	6
ZERO	Automatic Re-zero range Settings of 1 to 6 are available	2
STA	Stability symbol range	6

	Settings of 1 to 6 are available 1 is the smallest stability range and 6 is the largest.	
ZTR	Weight Tracking Range Settings of 1 to 6 are available	4

- 1) Switch on the scale then press the **[kg/lb]** key during the self-checking test of the display.
- 2) The display will show the first function **F1EL**.
- 3) Press the **[kg/lb]** key to select **F8 SETUP** and then **[Zero]** to enter and show the first parameter.
- 4) Press the **[Print]** key to change the setting and **[Zero]** to save and move to the next parameter, press **[cm/ft]** to exit.

To return to normal operation turn the scale OFF and then ON again.

6.9 TECHNICAL PARAMETERS F9 TECH

This is a menu available only to qualified service personnel for factory adjustments.

7.0 USER CALIBRATION

- 1) Switch on the scale and whilst the display counts down press the **[Clear]** key.
- 2) The display will show kg or lb, press **[Print]** to select the unit of weight being used for the calibration and then **[Zero]** to confirm.
- 3) The display will show CAL XX (XX being the last calibration weight to be used).
- 4) Press the **[Print]** key to change the value if required and **[Zero]** to confirm.
- 5) The display will show the Zero A-D which should be stable.
- 6) Press the **[Zero]** key to confirm the Zero point and the display will show LOd XX (XX being the calibration weight value to be loaded onto the top pan).
- 7) Load the top pan with the calibration weight and press the **[Zero]** key.
- 8) The display will show "PASS" for a successful calibration and return to normal weighing displaying the calibration weight value correctly.

9) Remove the weight from the pan and the scale will return to Zero.

*A print out with date and time can be issued following every calibration.

If an error code was displayed when calibrating please see the error code table in section 9.1

8.0 SERIAL INTERFACE SPECIFICATIONS

The balance comes equipped with an RS-232 Serial Interface.

The connector is a DE-9P female fitting with the following connections.

Pin 2 TXD Transmitted data

Pin 3 RXD Received data

Pin 5 GND Signal ground

Printing Output:

The lines will include a heading for each detail then the value. A typical output when weighing is shown below. 6 lines of data are printed if all are enabled.

All lines end with a carriage return <cr> and a line feed <lf>, (0dH and 0aH in ASCII).

Doctor Id:	00001
Patient Id:	0000000123
Weight:	80.00 kg
Height:	183 cm
BMI:	23.9
D&T	30/07/2012 11.20

Input command format:

The balance can be controlled by a PC with the following commands. The commands must be sent in upper case letters, i.e. "T" not "t".

Z<cr><lf>	Will Zero the scale, performs the same functions as pressing the [Zero] key.
P<cr><lf>	Will send a Print command to a PC or Printer. Performs the same functions as pressing the [Print] key.
C<cr><lf>	Will clear the last recorded reading from the display. Performs the same

	functions as pressing the [Clear] key
W<cr><lf>	Will change the Weight measuring unit being used between kg, lbs and lbs and ounces. Performs the same functions as pressing the [kg/lb] key.
H<cr><lf>	Will change the Height measuring unit being used between cm, inches and feet and inches. Performs the same functions as pressing the [cm/ft] key.

9.0 TROUBLE SHOOTING

9.1 ERROR MESSAGES

If an error message is shown, repeat the step that caused the message. If the error message is still shown then contact your dealer for support.

DISPLAYED MESSAGE	DESCRIPTION
Err	Measured height is above 210cm/82.5 inches
UNDER	Measured height is below 80cm/31.5 inches
Err H	Calibration weight value used too high
Err L	Calibration weight value used too low
-----	Weight on top pan exceeds 300kg/660Lbs

10.0 TECHNICAL SPECIFICATIONS

Model	MUW 300L
Maximum Capacity	300kg/660Lbs
Readability	0.05kg/0.1Lbs
Repeatability (s.d.)	0.1kg/0.2Lbs
Linearity ±	0.1kg/0.2Lbs
Units of Height	Cm, inches, feet and inches
Height range	80cm – 210cm/ 31.5 - 82.5 inches
Units of Weight	Kg, lb's, lb's and ounces
Power Supply	12vDC @800ma or Internal rechargeable 6vDC battery
Overall Dimensions w x d x h	0.38m x 0.6m x 2.3m 15 x 23.6 x 90.2 inches

11.0 WARRANTY INFORMATION

Adam Equipment offers Limited Warranty (Parts and Labour) for the components failed due to defects in materials or workmanship. Warranty starts from the date of delivery.

During the warranty period, should any repairs be necessary, the purchaser must inform its supplier or Adam Equipment Company. The company or its authorised Technician reserves the right to repair or replace the components at any of its workshops depending on the severity of the problems. However, any freight involved in sending the faulty units or parts to the service centre should be borne by the purchaser.

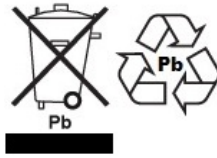
The warranty will cease to operate if the equipment is not returned in the original packaging and with correct documentation for a claim to be processed. All claims are at the sole discretion of Adam Equipment.

This warranty does not cover equipment where defects or poor performance is due to misuse, accidental damage, exposure to radioactive or corrosive materials, negligence, faulty installation, unauthorised modifications or attempted repair or failure to observe the requirements and recommendations as given in this User Manual. Additionally rechargeable batteries (where supplied) are not covered under warranty.

Repairs carried out under the warranty does not extend the warranty period. Components removed during the warranty repairs become the company property.

The statutory right of the purchaser is not affected by this warranty. The terms of this warranty is governed by the UK law. For complete details on Warranty Information, see the terms and conditions of sale available on our web-site.

WEEE 2012/19/EU



This device may not be disposed of in domestic waste. This also applies to countries outside the EU, per their specific requirements. Disposal of batteries (if fitted) must conform to local laws and restrictions.

Cet appareil ne peut être éliminé avec les déchets ménagers. L'élimination de la batterie doit être effectuée conformément aux lois et restrictions locales.

Dieses Gerät nicht mit dem Hausmüll entsorgt.

Dispositivo no puede ser desechado junto con los residuos domésticos

Dispositivo non può essere smaltito nei rifiuti domestici.

FCC / IC CLASS A DIGITAL DEVICE EMC VERIFICATION STATEMENT

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules and Canadian ICES-003/NMB-003 regulation. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CALIFORNIA PROPOSITION 65 - MANDATORY STATEMENT

WARNING: This product includes a sealed lead-acid battery which contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.



Adam Equipment products have been tested with, and are always supplied with mains power adaptors which meet all legal requirements for the intended country or region of operation, including electrical safety, interference and energy efficiency. As we often update adaptor products to meet changing legislation it is not possible to refer to the exact model in this manual. Please contact us if you need specifications or safety information for your particular item. Do not attempt to connect or use an adaptor not supplied by us.

ADAM EQUIPMENT is an ISO 9001:2008 certified global company with more than 40 years' experience in the production and sale of electronic weighing equipment.

Adam products are predominantly designed for the Laboratory, Educational, Health and Fitness, Retail and Industrial Segments. The product range can be described as follows:

- Analytical and Precision Laboratory Balances
- Compact and Portable Balances
- High Capacity Balances
- Moisture analysers / balances
- Mechanical Scales
- Counting Scales
- Digital Weighing/Check-weighing Scales
- High performance Platform Scales
- Crane scales
- Mechanical and Digital Electronic Health and Fitness Scales
- Retail Scales for Price computing

For a complete listing of all Adam products visit our website at

www.adamequipment.com

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