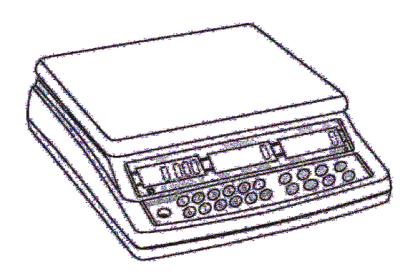


Adam Equipment

CCSA Coin Count Scale

Supervisor's Manual

(P.N. 6199, Revision C1, October 2009)



Model name of the scale:	
Serial number of the unit:	
Software revision number	
(Displayed when power is first turned on):	
Date of Purchase:	
Name of the supplier and place:	

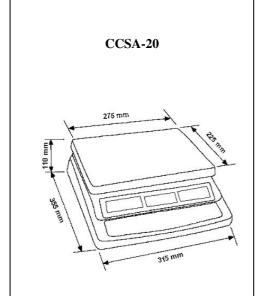
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1.0 INTRODUCTION

The CCSA Coin Counting Scale provides accurate, fast and versatile method of counting coins and determining the value of a group of coins. It can also be used to count tokens with a weight that is determined by the user.

1.1 FEATURES



- Weighing
- Automatic tare
- Coin/token Counting
- Memory Accumulation

- Stainless steel weighing platform
- Level indicator with adjustable leveling feet
- Colour coded, sealed, keypad
- Large liquid crystal displays (LCD)
- Displays for **Denomination**, **Quantity** and **TOTAL** value
- Battery operated for portability
- 50+ hours battery life when fully charged
- The scales can be upgraded when new coins are released
- Tokens can be counted.
- Standard bi-directional RS-232
- Date and time printed

2.0 SET UP

2.1 LOCATING AND PROTECTING YOUR SCALE

In order to keep your balance functioning at its best we suggest that you do the following:



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



Make sure the scale is located on a strong table and free from vibration.



Avoid unstable power sources. Do not operate 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 up periodically to make sure the battery dose not lose its charge.



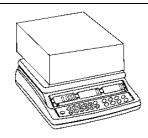
Keep free from vibration. Do not place near heavy or vibrating machinery.



Avoid high humidity that might cause condensation, and keep away from direct contact with water.

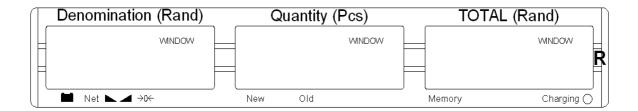


Do not place near open windows, air-conditioning vents or fans that may cause a draught and unstable readings.



Keep the scales clean, and do not stack material on the scale / balance when it is not in use. The Core has a stacking feature allowing more than one unit to be stacked on top of each other. For more details on this see the section on storing.

2.2 DISPLAY WINDOWS



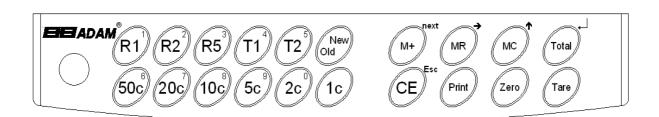
The **Denomination** window shows the current denomination that has been selected, an arrow will indicate when the scale is at zero (**ZERO**) and when the weight is stable (**STAB**) or if the scale has been tared (**Net**) and is displaying a net weight.

The **Quantity** window displays the number of coins counted. An arrow will show whether the weight of new style coins (**NEW**) or old style coins (**OLD**) was used to count them.

The **TOTAL** window shows the value of the coins counted. An arrow will also indicate when a value has been stored in memory (**MEMORY**).

2.3 KEY DESCRIPTIONS

The keypad has 20 keys. Other keypads may be used for different counties or applications.



The following are used for parameter entry:

	Function
[Total]	→, ENTER for completing an entry
[MC]	♠, increment the value being entered or move to the next parameter
[MR]	→, Move active digit to next available digit
[CE]	ESCAPE back to normal operation

Other Keys are:

[1c] to [50c], [R1] to [R5], [Token] keys	Select the denomination of coins to be counted.
[0] to [9] keys	Numeric keys to set values during special applications.
[CE/Esc]	Used to clear a coin denomination.
[New/Old]	Toggles between using new and old coin weights when determining the quantity and value of coins on the scale. Used when older styles of coins have been replaced by new styles with a different weight. An arrow in the Quantity window indicates the selection.
[M+]	Enters a new entry into memory. The memory will accumulate up to 99 entries. Tokens cannot be added to memory with coins. If nothing is in memory then tokens can be added but an error would be shown if both tokens and coins are added to memory.
[MR / →]	Recalls the separate entries from memory.

[Total / ₄]	Recalls the total value stored in memory
[MC / ↑]	Clears the memory. If [MR] has been used to recall the individual samples stored, then [MC] can be used to clear them from memory. [MC] will erase the complete contents of the memory only when the total is displayed (irrespective of whether [Total /] or [MR] is pressed when the final total is displayed).
[Print]	Prints a complete record of all data stored in memory. Displays the total count and value from memory.
[CE/ Esc]	Resumes normal operation.
[Zero]	When the weight on the scale is within ±2% of the zero at power on, pressing [Zero] will set the scale to zero. If it is outside this range then the Tare function is used.
[Tare]	Tare function allows the scale to display zero weight when an empty container is placed on the platform and [Tare] key is pressed. Once tared, any item placed in the container, the scale will display the Net weight only.

2.4 BATTERY CHARGING

- The scale has an internal rechargeable lead acid battery. This battery will allow more than 50 hours of operation when fully charged or less if the backlight is on.
- The **Denomination** display will show an arrow above the battery symbol when the battery needs to be re-charged. The battery should be charged as soon as possible. There is approximately 1/2 hour service still available when the indicator first appears. If the battery is not recharged in this time the power to the scale will be turned off to protect the battery from getting damaged.

2.5 BACKLIGHT OPERATION

- The LCD display has a backlight that operates automatically. To maximise the battery life it may be necessary to turn the backlight off.
- Hold the [Print] key for 4 seconds to enter the backlight control mode. Use the [MC /♠] key to change the setting for the backlight to OFF, ON (set to on for full time) or AUTO (set to on only when there is a weight on the scale).

2.6 TEMPORARY WEIGHT DISPLAY

- Press and hold the **[CE/Esc]** key for 4 seconds for the display to change the weight in the **Denomination** window.
- Pressing any key except the [Tare] and [CE/Esc] keys will have no effect to the operation. Pressing [Tare] will operate as a Tare function and [CE/Esc] will return the scale to normal operation.

2.7 SETTING DATE AND TIME

The Real Time Clock (RTC) is used only for the RS-232 output. The Date and Time can be set as required. The scale will keep the clock running even when the power is off.

Setting up the clock

• Press and hold the [1c] key when power is first turned on, release the key when the revision is displayed. The initial displays show the current date and time set.

```
" rtC " "11.14.06" "16.41,35"
```

- Press the **[CE]** key to change the date and time. The display will show the current time format, "**H-m-S**".
- Enter the time using the numeric keys using a 24 hour clock format, 3:41PM is "**154100**".
- Press the [Total/→] key to accept the time. The display will show the current date format.
- Press the [MC/♠] key to change the date format. Available formats are:

```
"Y-m-d" year, month, day month, day, year day, month, year
```

- Press the [Total/→] key to accept the chosen format and then enter the date in this format.
- Press the [[Total/→] key to accept the date.

An error code will be shown if the time (**Err 1**) or the date (**Err 2**) is not the permissible values. For example, 34th day of a month is an invalid entry.

3.0 BASIC OPERATION

3.1 ZEROING THE DISPLAY

- Press the [Zero] key to set the zero point from which all other weighing is measured. This will normally be done only when the platform is empty. A new zero is set if the scale is already within ±2% of the original zero at power on.
- When the zero point is obtained the **Denomination** display will show an arrow above the zero symbol (**ZERO**). This indicates the scale is at the zero condition.
- The scale has an automatic re-zeroing function to account for minor drifting or accumulation of material on the platform. However you may need to press [Zero] to re-zero the scale whenever a small amount of weight is shown even though the platform is empty.

3.2 TARING

- Taring is used to eliminate the weight of a container so that only the net weight is displayed.
- Zero the scale by pressing [Zero] if necessary. The zero indicator will be on.
- Place an empty container on the platform, a value for its weight will be displayed.
- Press [Tare] to zero the scale. The weight is stored as the tare value. An arrow above the "Net" will be on.

- When both the product and container are removed the Quantity and TOTAL display will show bars "- - - - " as the weight is below zero.
- If a different container is to be used, remove this negative tare value by pressing the **[Tare]** key once more.
- Any time the weight is negative, only bars will be shown in the TOTAL display "- - - - - ".

3.3 COIN COUNTING

- To count coins simply place the coins in the container and press
 the key corresponding to the value of the coin. The displays will
 immediately show the denomination selected in the
 Denomination window, the number of coins in the Quantity
 window and the value of the coins in the TOTAL window.
- To change to Old or New types of coin, press the [New/Old] key.
 Note an arrow in the Quantity window shows the selection.
- The Scale determines the weight of the coins and divided the weight by the average weight for the denomination selected. This determines the Quantity of coins. The total value is the quantity multiplied by the denomination.
- As some coins have been redesigned the weight of the old style may differ from the weight of the new style. Make sure you select the correct coin style when counting.
- It is necessary to set an average weight into memory before any of the token keys [T2] or [T1] can be used. See Sections 5.1 and 5.2 for more details.

3.4 MEMORY ACCUMULATIONS

- When the coins have been counted it is possible to store the results of this sample into memory by pressing [M+].
- The displays will show a number corresponding to the item number in memory (**Denomination** display "≡1=") and the total quantity of coins counted in memory (**Quantity** display) and the total value of coins that have been stored into memory (**TOTAL** display).

For Example:



Press [M+]



After 2 seconds the scale will return to normal operation. Put next batch of coins on the scale, select denomination [R1]

Press [M+]



After 2 seconds the scale will return to normal operation. Put next batch of coins, select denomination [10c]

" 0.10"	"	105 "	"	10.50 "
----------------	---	--------------	---	----------------

Press [M+]



 After 2 seconds the scale will return to normal operation. The weight on the scale must return to zero before another value is allowed to be stored into memory.

NOTE: Tokens cannot be added to memory as they do not have a value associated with them.

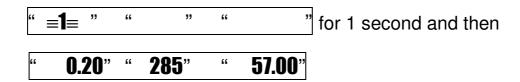
• If tokens are to be added to memory with coins, an error message will be displayed:



After that the scale will return to normal operation.

3.5 MEMORY RECALL

- Pressing the [MR/→] key will allow you to view each set of data stored into the memory.
- The first time [MR/→] is pressed the first set of data is shown with Denomination window showing " ≡ 1 ≡" for 1 second followed by the Denomination, Quantity and TOTAL windows showing the quantity and value for this first item.



Pressing [MR/→] again will show the second set of data.



 Continue to press [MR/→] until the total values from the memory are shown:

After 2 seconds the scale will return to normal operation.

• If [MC/ ♠] is pressed when the total is shown-

"
$$\equiv 3 \equiv$$
 " " 498" " 175.50" as in the above example,

all data in the memory will be erased. The displays will show Zero and it will return to normal weighing after 2 seconds.

4.0 RS-232 INTERFACE

The Scale includes a RS-232 output as standard. The RS-232 allows a record to be sent to a serial printer as work is done on the scale.

4.1 RS-232 OUTPUT

The RS-232 interface is bi-directional with commands that function similar to some of the front panel keys and other commands to input data into the scale for coin weights, denominations and symbols used. The parameters for the RS-232 interface are:

Baud Rate: 300, 600, 1200, 2400, **4800** or 9600 baud

Parity: **None**, Odd or Even

Data bits: **8** or 7 Stop bit: **1**

Data: ASCII

Connector: d-subminiature 9 pin plug (DE 9P)

Mating connector: d-subminiature 9 pin socket (DE 9S)

Pin 2 RXD Data Input Pin 3 TXD Signal Output Pin 5 GND Signal Ground

The scale does not require RTS/CTS signals to be used.

4.2 PRINTING

The scale will output data when the following keys are pressed.

[M+] outputs the current record at the same time as the results are stored in the memory. See Section 3.4.

A display produced as shown in the previous example is as follows:

```
" 0.20" " 285" " 57.00"
```

Press [M+]

```
" ≡1≡ " " 285" " 57.00"
```

Printed record shows as follows:

```
Date: 2009/01/05
Time: 12:23:15
Record 1
Denomination 0.20
Quantity 285
Amount R 57.00
```

Any time the **[Total** / L] key is pressed the current totals held in memory are printed. After the 2nd weighing in the previous sample, the printed record shows as follows:

```
Date: 2009/01/05
Time: 12:23:15
Total
Quantity 498
Total
Amount R 175.50
```

The $[MC/\uparrow]$ key is active when the total values are displayed. If $[MC/\uparrow]$ is pressed the memory will be cleared.

After 2 seconds the scale will return to normal operation.

The **[Print]** key will record a list of all sets of data stored in the memory and the total amounts. For the sample above, the printed record is:

Date: Time:	2009/01/05 12:23:15
Record Denominati Quantity Amount R	285
Record Denominati Quantity Amount R	108
Record Denominati Quantity Amount R	105
Total Quantity Total Amount	498 R 175.50

4.3 INPUT COMMANDS

The following commands duplicate the functions of keys. All commands are terminated by carriage return/line feed.

Z Same as [Zero] key. Zeros the display.

M+ Same as [M+] key.

P Same as [Print] key.

T Same as [Total] key.

MC Clears memory.

The following are for the factory to set new denominations and coin weights. The format is to send the key number, followed by the denomination and the new coin weight and then the old coin weight.

Examples-

K01, 1.00, 3.995, 11.971<cr><lf> 1R key (assume key 01),

With denomination 1.00, weight of new coin =3.995g, weight of old coin=11.971g.

K07, 0.20, 4.489, 2.505<cr><lf> 5c key (assume key7),

With denomination 0.20, weight of new coin =4.489g and weight of old coin = 2.505.

K10, T3, 1.234, 2.456<cr><lf> Token 3 key (assume key10),

With of a token, number 3, weight of new token = 1.234g and weight of old token = 2.456g.

Key numbers are the same as the numeric entry values shown on the keys, the 11th key (marked 0.01) will be key number 10.

To change the printed symbol for the monetary unit, send the command \$ followed by the hex code for the letter or symbol to be used.

For example, to print a "R" symbol send the command \$52.

5.0 PARAMETERS

5.1 SETTING COIN WEIGHT

There are 9 coins and 2 tokens available for the user in the South African version. Other versions of this scale may use other combinations. See the Secured Parameters Section (6.0) for details on how this can be changed. In addition each coin has a weight associated with the old style or a new style.

For South Africa the initial values set for the coins are:

Coin Denomination	New (Wt1)	Old (Wt2)
Token1, T0	0.000	0.000
Token2 , T1	0.000	0.000
1c	1.489	2.996
2c	2.995	3.974
5c	4.489	2.505
10c	1.987	3.960
20c	3.488	5.934
50c	4.910	9.488
R1	3.995	11.971
R2	5.470	7.006
R5	9.509	6.965

5.1.1 Procedure

To enter this section of the program you will need the access code number. It may be that your manager has changed the default access code number to another number. The default access code is 0000.

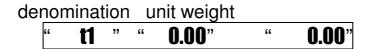
A restore code 4455 will set all coin weights as in the above table.

- Press the [New/Old] key and then apply power. Then release the key.
- The displays will show:" Pin " " " " "

Enter the access code (4 numbers) using the numeric keypad. An "-" will be displayed for each number.



Press the [Total/] key. If the access code number was correct it
will advance to the unit weight setting program, otherwise it will
return the scale to counting. The first value displayed is the first
token value. The displays show:



• To select another denomination press the key for that denomination. To select either the old or new style press the [New/Old] key. Note the arrow in the Quantity window.

For example the 10c key will show:



Unit weight is 1.987 grams for the new style and 3.960 for the old style.

• Press the **[Total**/ →**]** key to reset the value desired. The unit weight will change to 0.000 and flash.

" O.10" " O.OOO" " O.OO"

• Use the numeric keys to enter a new unit weight. For example press 1, 9, 8, and 5 to set, the numeric keys are shown with small numbers in the corner of the keys.

" **0.10**" "**1.985**" " **0.00**"

- Press [Total/→] to store the new value. "SAVE" will be displayed briefly.
- Repeat the procedure for any other changes necessary.
- If a printer is connected press the **[Print]** key to list of all the denominations and their values. .
- At any time press the [CE /Esc] key to escape the function.

5.2 DETERMINING NEW COIN OR TOKEN WEIGHTS

The following procedure is used to determine the average weight of coins or tokens. This can be used to verify the coin weight stored in memory and to set new weights for tokens.

5.2.1 Procedure

- Before beginning have a representative sample of the coins or tokens to be used. You should have a minimum of 100 pieceslarger the number of coins more accurate the average weight will be.
- Set the scale to show weight temporarily by pressing the [CE/Esc] key for 4 seconds. The weight will be displayed until [CE /Esc] or any other key except [Tare] is pressed to return to normal operation. The [Tare] key will continue to function as normal to zero the display.
- Verify the scale calibration by placing a known weight on the platform.
- If the scale is not accurate (±2g) it must be re-calibrated before proceeding. See Section 5.4.3 for calibration details.
- Place the tokens or coins to be checked on the scale. If they are
 in a container it will be necessary to Tare the weight of the
 container so the Quantity display shows zero before placing the
 coins or tokens in the container.
- The Denomination display will show the weight of the coins.
- Determine the average weight by dividing the total weight by the number of coins or tokens in the sample.

• It is then necessary to enter this value (rounded to 3 places: x.xxx) into memory as above. For example 12883g for 2000 tokens is an average of 6.4415 grams, Enter 6.442 grams.

5.3 SECURED FEATURES

The CCSA Coin Counting scale has a number of functions that can only be accessed by a qualified user.

Two levels of security are available. For the first level of security, a user password is required to allow the access to change the piece weight for the different denominations of coins. See Section 5.1.

The second level of security will allow more functions to be set. See section 6.0.

The first level of functions includes:

F1 Baud Rate

F2 Parity

F3 Sleep

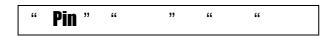
F4 Calibration

F5 Access Code Number Setting

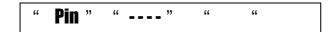
5.4 WEIGHING PARAMETER FUNCTIONS

The following functions control the weighing system in the scale. To set these functions, follow the procedure-

• Turn the scale on while holding the **[Total**/ →**]** key down and then release the key.



Enter the default access code "0000".



Press the [Total/ →] key. The first function is F1 Baud Rate Setting.



 Press the [MC/♠] key to advance to each of the other functions or [CE/Esc] to return to normal operation after running a self-test.

5.4.1 **f1**- Baud Rate Setting

To change the baud rate used with the RS-232 interface, follow this procedure.

When the display is showing:



• Press the [Total/ →] key.



Current baud rate

• For setting a new baud rate use the [MC/♠] key to cycle through the options which are 600, 1200, 2400, 4800 and 9600.



New baud rate

• Press [CE /Esc] to escape without changes before it is stored or press the [Total / →] key to confirm and store the new value.



• To move to the next function press [MC/♠]



• Or press [CE /Esc] to return to normal operation.

5.4.2 **F2**- PARITY

To change parity used with the RS-232 interface, follow this procedure.

• When the display is showing:



Press the [Total/ →] key.



Current parity, None, 8 data bits, 1 stop bit

 For a new parity setting, use the [MC/♠] key to cycle through the following options:

Parity = None, 8 data bits and 1 stop bit.
Parity = Even, 7 data bits and 1 stop bit.
Parity = Odd, 7 data bits and 1 stop bit.



• Press [CE /Esc] to escape without changes before it is stored or press the [Total / →] key to confirm and store the new value.



Press [MC/♠] to advance to the next functions



• Or press [CE /Esc] to return to normal operation.

5.4.3 **F3**- SLEEP

The scale can be set to trun off automatically if it is not being used. The time can be from 1 to 10 minutes, or disabled. To change the time , follow this procedure.

- When the display is showing:" F3 " " SLEEP " " SEt "
- Press the [Total/ →] key.
 " F3 " " SLEEP " 1 "

Current setting, 1 minute

- For a new value, use the [MC/♠] key to cycle through the options, 1, 5 or 10 minutes, 0 will disable the automatic turn off function.
- Press [CE /Esc] to escape without changes before it is stored or press the [Total / →] key to confirm and store the new value.



5.4.4 **F4**- Weight Calibration

To calibrate the scales it is necessary to have a weight suitable to the capacity of the scale. It should have a mass near to the capacity of the scale, without exceeding it. For example use 20kg mass to calibrate the CCSA. The calibration weight should be accurate to assure accuracy of all weighing. Weights of OIML Class M1 or better should be used. Other values of mass can be used., see below.

The user calibration must verify the calibration is within 10% of this calibration. This prevents calibration with no weight on the scale or with grossly wrong weights.

When the display is showing:" F4 " " CAL " " SEt '

Press the [Total / →] key. The display will show the following:
" CAL " " 0.000 "" 12345"

The number in the TOTAL window is the number of internal counts representing the zero weight, from the analog to digital converter within the scale.

• Make sure no other weights are on the scale. Press the **[Total / →]** key to set the zero point. The display will show:



- If a different mass is required from the one shown press the **[CE]** key to clear the value, then enter the value of the calibration mass, i.e. 10 kilograms.
- The display will show:



• Place the calibration weight on the scale. Press the **[Total / →]** key to show the ADC values for this weight.



• Press the **[Total** / →**]** key to show the ADC values for this weight. The display will then show:



After few seconds it will show the next function.



Remove the weight from the scale.

If [CE/ESp] is pressed during calibration return to normal operation without doing the calibration.

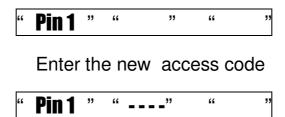
5.4.5 **F5**- Access Code Number

To change the user access code number used to enter the section of the program for changing coin weights (see Section 5.2) follow this procedure. This parameter can only be accessed by skipping the F3 Calibration function by using the **[MC/**↑] key.

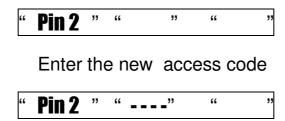
• When the display is showing:



Press the [Total / →] key. The display will show:



• press the **[Total**/ →**]** key to confirm and store the value, The scale will ask you to repeat the number again for security.



• Press [CE /Esc] to escape without changes before it is stored or press the [Total/] key to confirm and store the value.



• To return to normal operation press the [CE /Esc] key.

6.0 ERROR MESSAGES

When power is first applied to the scale the software does a self check and then verifies the voltages from the load cell are acceptable. The display will show error messages if the voltage is not within certain limits. If these error messages appear contact your supplier for assistance.

ERROR CODE	DESCRIPTION	POSSIBLE CAUSES
Err 1	Error setting a date	Trying to set a date that is not realistic.
Err 2	Error setting time	Trying to set a time that is not realistic.
Err 4 Initial Zero is greater than allowed (typically 4% of the maximum capacity) when	Weight is on the pan when turning the scale on.	
	power is turned on or when the [Zero] key is pressed,	Excessive weight on the pan when zeroing the scale.
		Improper calibration of the scale.
		Damaged load cell.
		Damaged Electronics.
Err 6	A/D count is not correct when turning the scale on.	Platform is not installed.
		Load cell is damaged.
		Electronics is damaged.

7.0 SPECIFICATIONS

	CCSA
Capacity, Max =	20 kg
d=	1g
	NOTE: Weight is not displayed except in special test program
Tare Range	-20 kg
Working Temperature	0°C to 40°C
Platform	225 x 275mm
Overall	315 x 355 x 110mm
Battery Life	50+ hours typical*
Power	230 VAC, 50/60 Hz., 10 watts
Net Weight	4.1 kg

^{*}Battery Life is less when the optional backlight is used

8.0 WARRANTY STATEMENT

Adam Equipment offers Limited Warranty (Parts and Labor) 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 customer must inform the supplier or Adam Equipment. The company or its authorised Technician reserves the right to repair or replace any components at its own discretion. Any shipping costs involved in sending the faulty units to a service centre is the customers responsibility.

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.

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 Laws of England and Wales. For complete details on Warranty Information, see the terms and conditions of sale available on our web-site.

Manufacturer's Declaration of Conformity

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

Electro Magnetic Compatibility Directive 2004/108/EC

Low Voltage Directive 2006/95/EC

Adam Equipment Co. Ltd. Maidstone Road, Kingston, Milton Keynes, MK10 0BD United Kingdom



FCC COMPLIANCE

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. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. The 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.

Shielded interconnect cables must be employed with this equipment to insure compliance with the pertinent RF emission limits governing this device.

Changes or modifications not expressly approved by Adam Equipment could void the user's authority to operate the equipment.

WEEE COMPLIANCE



Any Electrical or Electronic Equipment (EEE) component or assembly of parts intended to be incorporated into EEE devices as defined by European Directive 2002/95/EEC must be recycled or disposed using techniques that do not introduce hazardous substances harmful to our health or the environment as listed in Directive 2002/95/EC or amending legislation. Battery disposal in Landfill Sites is more regulated since July 2002 by regulation 9 of the Landfill (England and Wales) Regulations 2002 and Hazardous Waste Regulations 2005. Battery recycling has become topical and the Waste Electrical and Electronic Equipment (WEEE) Regulations are set to impose targets for recycling.

ADAM EQUIPMENT is an ISO 9001:2000 certified global company with more than 35 years experience in the production and sale of electronic weighing equipment.

For a complete listing of all Adam scales and balances visit our website at:

www.adamequipment.com

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Adam Equipment reserves the right to make changes to the technology, features, specifications and design of the equipment without notice.

All information contained within this publication is to the best of our knowledge timely, complete and accurate when issued. However, we are not responsible for misinterpretations which may result from the reading of this material.

The latest version of this publication can be found on our Website.

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