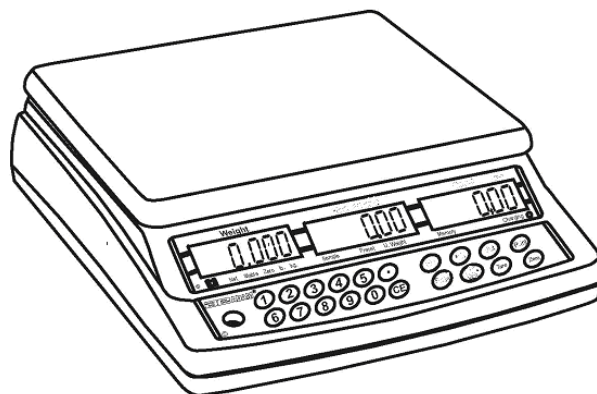


# AZ<sub>extra</sub> SERIES

(P.N. 3026610533, Revision A4, July 2013)



Adam Equipment strives to be more environmentally focused and uses recycled materials and environmentally friendly packaging where possible. As part of this initiative we have developed a short form manual that uses less paper and ink to describe the main functions of your new Adam scale. A complete version is available at [www.adamequipment.com](http://www.adamequipment.com). Thank you for your support of Adam Equipment and we hope that you enjoy your new scale.

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## 1.0 OPERATION

### 1.1 SETTING UP AND TURNING ON THE SCALES

Set your scale in a ventilated place. Place the platform in the receptacles on the top cover. If an optional scoop has been supplied, place it on top of the platform. If an optional Pillar display is supplied, install the pillar in the upright position into the socket at the rear of the scale by carefully pushing the cable inside the pillar rod. Secure the pillar rod to the socket by using two M4 screws. A black plastic cap is provided to seal the socket from the bottom to avoid damaging the cable. Level the scale by adjusting the four feet.

There are three displays both on both front and back panels (Optional user display on pillar). Displays are for the **Weight, Unit Price and Total Price**.

Turn the power ON using the switch located on the right side of the base. The unit will display the software revision number in the Weight window and count down to zero while performing a self-test. When ready all three displays will show zero.

The scale has an internal rechargeable battery which will make the scale operate up to 90 hours when fully charged or less if the backlight is on. When the battery needs charging, the arrow above the low battery symbol under the Weight window will be on and the display will show "**LO bat**" for a few seconds and every 2 minutes as a reminder, turn off the scale and charge the battery for 12 hours to gain a full charge.

### 1.2 ZEROING AND TARING

#### **Zeroing:**

You can press the **[Zero]** key when the platform is empty to set the zero point. 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 if small amounts of weight are shown when the platform is empty.

#### **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. Press **[Tare]** to zero the scale. The Net indicator will be on. As product is added only the weight of the product will be shown.

When the product and container are removed the weight window will show a negative value. If a different container is to be used, remove this negative tare value by pressing the **[Tare]** once more.

### 1.3 DETERMINING VALUE OF A PRODUCT BY WEIGHT

To determine the cost of a product sold by weight, it is necessary to enter the cost per kilogram or per 100g using the numeric keys or one of the preset PLU values.

Example:

	Display will show		
	Weight (in kg)	Unit Price	Total Price
Place a container on the scale and Press <b>[Tare]</b>	0.000	0.00	0.00
Place the items on the platform	1.300	0.00	0.00
Key in the unit price	1.300	5.00	6.50

Press the **[kg 100g]** key to change the calculation to a price based on the cost per 100g or the cost per kilogram. If a different unit price is required either press **[CE]** to reset the unit price to 0.00 or simply enter a new unit price.

Press the **[Auto Clear]** key will automatically clear the unit price when the last item has been removed, this key can also disable the auto clear function

**NOTE:** For South Africa and Far East, unit weight per 100g or per kg is not available.

### 1.4 USING A STORED PLU VALUE FOR UNIT PRICE

Product Look-Up (PLU) numbers are used to store information about the most commonly used items. During the weighing operation, the user can recall the cost per kilogram or per 100g of a particular item very easily using the PLU values. The user can store and recall up to 103 PLU values as PLU1, PLU2, PLU3 and PLU00 to PLU99.

The individual PLU values should be entered against specific items before the weighing process starts. To recall one of these PLU values the following procedure applies.

- To recall PLU1 or PLU2, simply press **[PLU1]** or **[PLU2]**.
- To recall one of the other PLU values, press **[PLU+]**. The display will show **"LOAD" "PoS 00"**. If a number (00 to 99) is entered immediately, then the value saved against the entered PLU number will be recalled. If nothing is entered within a few seconds of pressing the **[PLU+]** key, the value saved for PLU3 will be recalled.

### 1.5 STORING VALUES FOR THE PLU s

To store values for the PLUs into the memory follow the procedure:

- Enter the unit price value using the keypad, selecting either price/kg or price/100g if needed.

**Entering values for PLU1 and PLU2 keys:**

- Press and hold down the key **[PLU1]** or **[PLU2]** for more than 3 seconds till a beep is heard, then release the key. The scale displays **"PLU" " 1" "SAVED"** or **"PLU" " 2" "SAVED"**, followed by the PLU value displayed in the Unit Price window.

### **Entering values for the [PLU+] key:**

- Press and hold down the key **[PLU+]** for more than 3 seconds till a beep is heard, then release the key. It will show **"SAVE" "PoS 00" " "**.
- If no number is entered for "00" within a few seconds, the PLU entered will be saved for position 3 .The display will show **"PLU" "3" "SAVED"** and the scale will return to weighing.

Or

Enter any number (00 up to 99) for saving the unit price in the desired position. For example, press **[1]** and **[4]** for the position 14. It will show **"PLU" "14" "SAVED "** before returning to weighing.

## **2.0 RS-232 INTERFACE**

The AZextra scales include a bi-directional RS-232 interface. When connected to a printer or computer, the scale outputs the weighing results using the RS-232 interface. The scale can be controlled by sending commands from a PC. See section 3.1.

### **Specifications:**

RS-232 output of weighing data ASCII code Adjustable Baud rate, 600, 1200, 2400, <b>4800</b> , 9600 and 19200 baud 8 data bits No Parity
--

### **Connector:**

9 pin D-subminiature socket Pin 3 Output Pin 2 Input Pin 5 Signal Ground
---

## **2.1 INPUT COMMANDS FORMAT**

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

T<cr><lf>	Tares the scale to display the net weight. This is the same as pressing <b>[Tare]</b> key.
Z<cr><lf>	Sets the zero point for all subsequent weighing. The display shows zero.
P<cr><lf>	Prints the results to a PC or printer using the RS-232 interface.

## 3.0 PARAMETER

### 3.1 AUTO SLEEP FUNCTION

This function may be enabled or disabled by the user. If enabled, when the scale is not used for some time (as pre-set by the user under this function) it automatically switches off. To set this parameter-

During self-checking, press **[Zero]** and release at once. The display shows **"SLEEP nodE"**. Press **[Print]** key to scroll through the auto sleep values. Options are 0,1,5,10.

- "0"** Auto sleep mode disabled
- "1"** Auto sleep after 1 minute
- "5"** Auto sleep after 5 minutes
- "10"** Auto sleep after 10 minutes

Press **[Tare]** to set the value. The scale returns to zero.

### 3.2 BACKLIGHT OPERATION

The backlight may be enabled or disabled by the user. If the backlight is disabled the battery life will be maximised. With the backlight in operation the battery life will be less depending on the extent at which the scale is used. To set the backlight-

Press and hold the **[Auto Clear]** key for 4 seconds.

Press the **[Print]** key to change the operation:

- "EL" " AU"** Automatic control of the backlight(will turn on when the scale is being used.)
- "EL" " on"** Backlight on full time
- "EL" " off"** Backlight turned off

Press **[Tare]** to store the setting.

### 3.3 RS-232 SETUP

The RS-232 interface uses parameters set by the user for language, currency symbol, baud rate, date format and label format of the printout.

Press and hold the **[Print]** key for 4 seconds to access the parameters. Press **[Print]** to scroll through the options and **[Tare]** to confirm the change and then advance to the next parameter. When a parameter is entered by pressing **[Tare]**, the displays will guide you through the parameter selected and the options available. The parameters and their function are:

Displays			Options	Functions
Weight	Unit Price	Total Price		
<b>Port</b>	<b>on</b>		<b>on or off</b>	Enable or disable the RS-232 interface.
<b>4800</b>	<b>bPS</b>		<b>600, 1200, 2400, 4800, 9600 or 19200</b>	Set baud rate.
<b>LABEL</b>	<b>1</b>		<b>1, 2 or 3</b>	Select label format to print.
<b>CoUntr</b>	<b>Y E</b>	<b>nGLiSH</b>	<b>EnGLiSH, FrEnCH, GErMAN or SPAniSH</b>	Select Language to be printed.
<b>StErLi</b>	<b>nG</b>		<b>EUroPE, dOLLAr, StErLinG</b>	Select currency- Euro, Dollar or Pounds Sterling

### 3.4 REAL TIME CLOCK SETUP

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.

**Steps:**

- Press and hold the **[CE]** key when power is first turned on, release the key when the revision is displayed. The 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 **[Tare]** key to accept the time. The display will show the current date format.
- Press the **[Print]** key to change the date format. Available formats are:  
 “Y-m-d” year, month, day  
 “m-d-Y” month, day, year  
 “d-m-Y” day, month, year
- Press the **[Tare]** key to accept the chosen format and then enter the date in this format. Press the **[Tare]** 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.

### 4.0 ERROR CODES

During the initial power-on testing or during operation, the scale may show an error message. If an error message is shown, repeat the step that caused the message. If the error is still shown contact your dealer for further support.

ERROR	DESCRIPTION	POSSIBLE CAUSES
<b>Err 1</b>	Time input error.	Tried to set an illegal time, i.e. 26 hours
<b>Err 2</b>	Date input error	Tried to set an illegal date, i.e. 36th day
<b>Err 4</b>	Initial Zero is greater than allowed (typically 4% of the maximum capacity) when power is turned on or when [Zero] is pressed,	Weight is on the pan when turning the scale on. Excessive weight on the pan when zeroing scale. Improper calibration of the scale. Damaged load cell. Damaged Electronics.
<b>Err 6</b>	A/D count is not correct when turning the scale on.	Platform is not installed. Load cell is damaged. Electronics is damaged.

### 5.0 CALIBRATION

The scales are sealed to prevent unauthorised calibration. Contact Adam Equipment or your supplier for more details.

## 6.0 SPECIFICATIONS

	<i>AZextra</i> 3	<i>AZextra</i> 6	<i>AZextra</i> 15	<i>AZextra</i> 30	<i>AZextra</i> 3P*	<i>AZextra</i> 6P*	<i>AZextra</i> 15P*	<i>AZextra</i> 30P*
Maximum Capacity	3 kg	6 kg	15 kg	30 kg	3 kg	6 kg	15 kg	30 kg
Readability	1 g	2 g	5 g	10 g	1 g	2 g	5 g	10 g
Tare	-3 kg	-6 kg	-15 kg	-30 kg	-3 kg	-6 kg	-15 kg	-30 kg
Pan size	225 x 275 mm							
Operating Temperature	-10°C to 40°C							
Battery life	90 hours typical. Battery Life is less when the backlight is used.							
Power	Mains power supply to an internal transformer							
Interface	RS-232 bi-directional interface English, German, French, Spanish selectable text							
Date/Time	Real Time Clock (RTC), To print date and time information (Dates in year/month/day, day/month/year or month/day/year formats- Battery backed)							
Display	3 x 6 digits backlit LCD displays							
Housing	ABS Plastic with Stainless Steel Pan							
Overall Dimensions	315 x 355 x 110 mm				315 x 355 x 535 mm			
Net Weight	4.3 kg				4.7 kg			

**\*NOTE:** *AZextra*-P models have the Pillar Display.



## 7.0 SERVICE INFORMATION

This manual covers the details of operation. If you have a problem with the scale that is not directly addressed by this manual then contact your supplier for assistance. In order to provide further assistance, the supplier will need the following information which should be kept ready:

### **A. Details of your company**

- Name of your company:
- Contact person's name:
- Contact telephone, e-mail, fax or any other methods:

### **B. Details of the unit purchased**

(This part of information should always be available for any future correspondence. We suggest you to fill in this form as soon as the unit is received and keep a print-out in your record for ready reference.)

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

### **C. Brief description of the problem**

Include any recent history of the unit. For example:

- Has it been working since it's delivered
- Has it been in contact with water
- Damaged from a fire
- Electrical Storms in the area
- Dropped on the floor, etc.

## 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.

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 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 9001:2008 certified global company with more than 35 years experience in the production and sale of electronic weighing equipment.

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

- Analytical and Precision 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
- Medical Scales
- Retail Scales for Price computing

For a complete listing of all Adam products visit our website at  
[www.adamequipment.com](http://www.adamequipment.com)

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