

# Adam Equipment

# **AGB Bench Scale**

Software rev: V 1.00 & above



Easy Reference:	
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:	

# CONTENTS P.N. 3.11.6.6.14276, Rev A2, October 2020

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# 1.0 INTRODUCTION

- The AGB bench platform scale includes a durable stainless steel base, approvals, and AE403 indicator ideal for general warehouse applications.
- These scales provide the user with the electronics necessary to build an accurate, fast, versatile weighing system.
- Functions include, weighing, check weighing, parts counting, animal weighing and percent weighing.
- The system includes automatic zero tracking, audible alarm for checkweighing, semi-automatic tare and an accumulation facility that allows individual weights or counts to be stored and the total recalled.
- The scales have a bi-directional RS-232 interface for communicating with a PC or printer.
- RS-232 outputs include Real time Clock, English, German, French, Spanish,
   Italian or Portuguese language text and data required for GLP reports.
- Internal rechargeable battery and IP-67 rated enclosure allow for a fully portable and rugged weighing system.



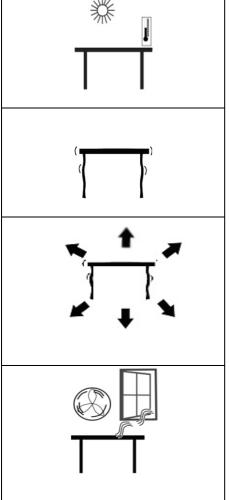
# 2.0 SPECIFICATIONS

AGB Standard Mode	ls			
	AGB 8	AGB 16	AGB 35	AGB 70
Maximum capacity	8000g	16kg	35kg	70kg
Readability	0.1g	0.2g	0.5g	1g
Resolution	0.1g	0.2g	0.5g	1g
Repeatability	0.1g	0.2g	0.5g	1g
Linearity	0.2g	0.4g	1g	2g
AGB US Models (sta	ndard)			
AGB 16a	AGB 35a	AGB 65a	AGB 175a	AGB 260a
16lb / 8kg	35lb / 16kg	65lb / 30kg	175lb/ 80kg	260lb/ 120kg
0.0005lb / 0.2g	0.001lb / 0.5g	0.002lb / 1g	0.005lb / 2g	0.01lb / 5g
0.0005lb / 0.2g	0.001lb / 0.5g	0.002lb / 1g	0.005lb / 2g	0.01lb / 5g
0.001lb / 0.5g	0.002lb / 1g	0.004lb / 2g	0.01lb / 5g	0.02lb / 10g
0.001lb / 0.5g	0.002lb / 1g	0.004lb / 2g	0.01lb / 5g	0.02lb / 10g
AGB US Models (Tra	de Approved)	.1		<u> </u>
AGB 15aM	AGB 30aM	AGB 60aM	AGB 150aM	AGB 300aN
15lb	30lb	60lb	150lb	300lb
0.002lb	0.005lb	0.01lb	0.02lb	0.05lb
0.002lb	0.005lb	0.01lb	0.02lb	0.05lb
0.004lb	0.01lb	0.02lb	0.04lb	0.1lb
0.004lb	0.01lb	0.02lb	0.04lb	0.1lb

	AGB 6M	AGB 15M	AGB 30M	AGB 60M
Maximum capacity	6000g	15kg	30kg	60kg
Readability	2g	5g	10g	20g
Resolution	2g	5g	10g	20g
Repeatability	2g	5g	10g	20g
Linearity	4g	10g	20g	40g
Pan size	300 x 400mm			
Operating temperature	0C-40C			
Power Supply	6V 4.5Ah Rechargeable battery And AC/DC 12V 800mA power adapter;			
Battery life	90 hours typical. Battery Life is less when the backlight is used.			
Interface	RS-232 bi-directional Interface			
Display	6 digits, 40mm digit height LCD digital display with backlight			
Balance Housing	Indicator: IP 67 rated Stainless Steel Scale: Grade 304 stainless steel			
Overall dimension	805 x 425 x 170 mm			
Net weight	14kg			
Functions	Weighing, Check weighing, Parts counting, Memory Accumulation, Animal weighing, Percent weighing, Peak hold			
Weighing units	Grams, Kilogram, pound, ounce, pound/ounce; Newton;			
Calibration	Automatic External			

# 3.0 INSTALLATION

# 3.1 LOCATING THE SCALE



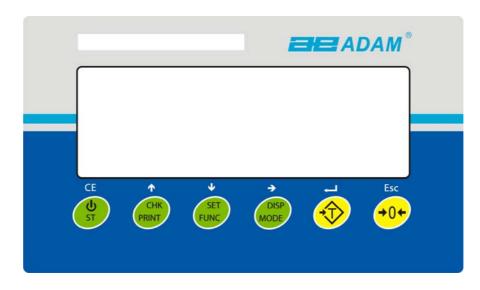
- The scale should not be placed in a location that will reduce the accuracy.
- Avoid extremes of temperature. Do not place in direct sunlight or near air conditioning vents.
- Avoid unsuitable tables or surfaces.
- Avoid unstable power sources. Do not use near large users of electricity such as welding equipment or large motors.
- Do not place near vibrating machinery.
- Avoid air movement such as from fans or opening doors. Do not place near open windows or airconditioning vents.
- Keep the scale clean. Do not stack material on the scale when not in use.

# 3.2 LIST OF ACCESSORIES

Your packet contains-

- ✓ AC adapter
- ✓ Scale
- ✓ Instruction manual

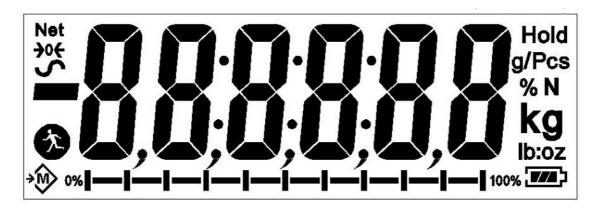
# 4.0 KEY DESCRIPTIONS



_♠ [Tare/↵]	Sets the zero point for all subsequent weighing. The display shows zero.			
1 Irane/	Tares the scale. Stores the weight currently on the scale as tare value, subtracts the tare value from the gross weight and shows the results.			
	A secondary function, is of "Enter" key used when setting up the value for the Parameters.			
[CHK/PRINT/†]	CHK: Selects checkweighing. Used to set the Low/High weight limits while checkweighing.			
	PRINT: Sends the results to a PC or a Printer using the RS-232 interface. It also adds the value to the accumulation memory if the accumulation function is not automatic.			
	1: Up directional button for scrolling. Also used for incrementing the active digit when setting a value for Parameters.			
[Disp/Mode/→]	Selects the weighing unit to be displayed from those which are enabled. See parameter rS1 in section 7.2.			
	A secondary function, → is to move the active/flashing digit to the right when setting values for Parameters.			
[Func/Set/↓]	Selects the Functions of the scale. If the scale is weighing, it will select parts counting. If it is not in weighing mode, it will return the user to weighing.			
	A secondary function (SET) will bring up the settings menu. Also used to set values used for parameters			
[ <b>→</b> 0 <b>←</b> /Esc]	Used to zero the scale.			
	A secondary function ( <b>ESC</b> ) is to return to normal operation when the scale is in a Parameter setting mode.			
ტ / ST/ CE]	To switch on and switch off the scale.			
	ST: Secondary function allows the user to store/ recall checkweighing limits.			

# 5.0 DISPLAYS

The LCD display will show a value and a unit to the right of the digits. In addition the LED's above the display will show when a weight is below or above check-weighing limits.



Other symbols will show when a weight has been tared (NET) the scale is at zero and stable, if a value has been stored in memory or when the animal weighing function has been enabled. A battery symbols will show the state of charge of the internal battery.

# 6.0 OPERATION

# 6.1 ZEROING THE DISPLAY

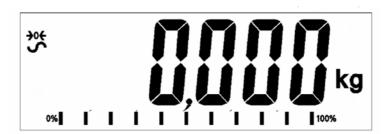
• You can press the [→0←/Esc] key at any time to set the zero point. This will usually be necessary when the platform is empty. You can only zero off a weight up to a maximum of 20% of the scale capacity. When the zero point is obtained the display will show an indicator for zero.



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
the [→0←/Esc] key to re-zero the scale if small amounts of weight are
shown when the platform is empty.

#### 6.2 TARING

Zero the scale by pressing the [→0←/Esc] key if necessary. The "ZERO" indicator will be ON. →0←



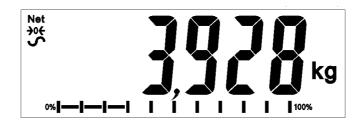
- Place a container on the platform, a value for its weight will be displayed.
- Press the [Tare/4] key to tare the scale. The weight that was displayed is stored as the tare value and that value is subtracted from the display, leaving zero on the display. The "NET indicator will be ON. As a product is added only the net weight of the product will be shown. The scale could be tared a second time if another type of product was to be added to the first one. Again only the weight that is added after taring will be displayed.



- When the container is removed a negative value will be shown. If the scale
  was tared just before removing the container this value is the gross weight of
  the container plus all products that was removed. The "ZERO" indicator will
  be on to indicate that the platform is back to the same condition as it was
  when zero was last set.
- To delete a Tare value, press [→0←/Esc] when the pan is empty.

#### 6.3 WEIGHING A SAMPLE

To determine the weight of a sample, first tare the empty container if it is to be used and then place the sample in the container. The display will show the net weight of the sample and the units of weight currently in use.



#### 6.4 CHANGING THE WEIGHING UNITS

To change the weighing units, press the **[Unit/Mode]** key. Press the key again to move to the next unit type in the queue.

#### 6.5 PRESET TARE

To preset a tare weight value, press and hold the **[Tare/**₄] key. The display will now show a flashing unit which can be increased or decreased using the ↑ or ↓ directional keys and the → directional key to move to the next digit.

Once you have set the desired sample size, press the [Tare/₄] key.

#### 6.6 PARTS COUNTING

If parts counting is enabled, it is possible to count parts using a sample of the parts to determine average piece weight.

- Before starting, tare the weight of any container that may be used, leaving the empty container on the scale. Place a known number of samples in the container, if used. The number should match the options for parts counting, i.e., 10, 20, 50, 100 or 200 pieces.
- Press the [Func/Set] key to select the weighing mode.
- Using the directional buttons ↑ or ↓, scroll through to the parts counting mode, "Count" will be shown on the display. Press [Tare/] to confirm.
- Once in parts counting mode the "Pcs" indicator will appear on the right-hand side of the display. Place the sample onto the scale and press the [Disp/Mode] key.

- The display will now show a flashing unit which can be increased or decreased using the ↑ or ↓ directional keys. Once you have set the desired sample size, press the [Tare/◄] key.
- From here you will return to the main piece counting display which will show the number of pieces assigned to the weight on the scale. Adding or removing weight will cause the number of pieces to change in relation to the weight per piece.



Press the [Func/Set] key to change the mode.

#### 6.7 CHECK-WEIGHING

Check-weighing is a procedure to cause LEDs to come on (and if enabled, an alarm to sound) when the weight on the scale meets or exceeds values stored in memory. The memory holds the last values for a high and a low limit when the power is turned off. The user can set either one limit or both as described below.

The limits can be set when the scale is in weighing or parts counting modes. After limits have been set the Check-weighing function is enabled.

When a weight is placed on the scale the LED's above the display will show if the weight is above or below the limits and the beeper will sound, if the beeper is enabled.

- Press the **[Func/Set]** key to select the weighing mode.
- Using the directional buttons ↑ or ↓, scroll through to the normal weighing mode, "Weight" will be shown on the display. Press [Tare/] to confirm.
- Once in normal weighing mode, hold the [CHK/PRINT] button for 2-3 seconds. "Hi" will appear on the display followed by a value on the display with a flashing digit.
- To set the high limit, use the directional keys ↑ or ↓ to scroll between numbers 1-9 and the → directional key to move to the next digit. Press [Tare/4] to confirm.
- Once confirmed, "Lo" will appear on the display followed by a value on the display with a flashing digit.
- To set the low limit, follow the same process as before using the directional keys to scroll and **[Tare/**ℯ] to confirm.
- Once confirmed you will return to the normal weighing screen. Placing an object onto the scale will now turn the indicator display red, yellow or green depending on whether the value is within, under or over the set weight limits.

For checkweighing in parts counting mode, use the directional buttons ↑ or ↓, scroll through to the parts counting mode, "Count" will be shown on the display. Press [Tare/4] to confirm and follow the same process as outlined above.

# 6.7.1 Relay outputs and checkweighing

The relay outputs are open collector drivers to control an external relay. The relays will be active when the corresponding LED is on during check-weighing. The ZERO relay output will be on when the scale is showing the display is at Zero.

BOTH LIMITS SET	The display backlight will be green when the weight is between the limits	
LOW LIMIT SET HIGH LIMIT SET	The display will be amber when the weight is less than the Low Limit. Above the Low Limit the display backlight will be green,	CHK bP = In  The beeper will be off when the weight is less than the Low Limit.  Above the Low Limit the beeper will be on  CHK bP = Out  The beeper will be on sound when the weight is below the Low Limit
HIGH LIMIT SET LOW LIMIT is set to zero	The display will show a red backlight until High limit is reached, then green backlight above the High limit. Beeper will turn on after High limit.	CHK bP = In The beeper will be on when the weight is less than the High Limit. Above the High Limit the beeper will be off.  CHK bP = Out  When set to bP OtL the indicator alarm will turn on below the high limit with red backlight.  The beeper will be off when the weight is below the High limit, on when it is above the High limit.
BOTH LIMITS SET. LOW IS SET GREATER THAN HIGH	This condition is not allowed.	

### NOTE:

Weight must be more than 20 scale divisions for check weighing to operate. Below 20 scale divisions the LED's will not light and the beeper will not be on.

The Check-weighing function can be set up during Weighing or Parts Counting by entering values as Low or/and High Limits keyed in by the user. The limits are displayed in **kg** (or **Lb**) or **pcs** respectively.



**Checkweighing during Parts Counting** 

To disable the Check-Weighing function enter zero into both limits by pressing the **[Func/Set]** key when the current limits values are displayed during the setting procedure, then pressing **[Tare/**4] to store the zero values.

The values set for the check-weighing will remain in memory when the weighing units or the function changes to parts counting but will not be active. They will become active again when the weighing unit or parts counting that was active at the time the limits were set is reactivated.

#### 6.8 ACCUMULATED TOTAL

- The scale can be set to accumulate manually by pressing the [CHK/ Print]
  key or automatically when a weight is removed from the scale. The
  accumulation function is available when weighing or when counting parts.
  However the memory is cleared if the weighing units or functions are
  changed.
- When the weight (or count) displayed is stored in memory the display will show "ACC 1" and then the total in memory for 2 seconds before returning to weighing. The RS-232 interface will output to a printer or PC.
- Remove the weight, allowing the scale to return to zero and put a second weight on. When this value is stored, the display will show "ACC 2", then the new total and finally the value of the second weight. Repeat as necessary to add all the values needed to the memory.
- To view the total in memory press the [CHK/Print] key when there is no weight on the scale. The display will show the number of entries and the total.

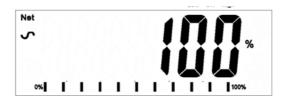
 To clear the memory (set the value to zero) press the [Power/ST] key during the time the totals are being displayed, "Clear" will flash on the display for 2-3 seconds and then return to the usual weighing display.

# 6.9 PERCENT WEIGHING

The scale can be set to perform percent weighing.

The scale will use a mass on the platform as the 100% reference weight.

- Press the **[Func/Set]** key to select the weighing mode.
- Using the directional buttons ↑ or ↓, scroll through to the percentage weighing mode, "Percent" will be shown on the display. Press [Tare/↵] to confirm.
- Once in percent weighing mode the "%" indicator will appear on the righthand side of the display.



• Remove the sample weight. Then any other weight placed on the scale will be displayed as a percentage of the original sample. For example, if 3500g is placed on the scale and percent weighing is selected, the display will show 100.0%. Remove the 3500g weight and place a 3000g weight. The display will show 85.7% as 3000g is 85.7% of 3500g.



- The number of decimal points will depend on the weight used in comparison to the capacity of the system. A smaller weight will show only "100%" while a larger weight might show "100.00%".
- If the scale was showing zero weight when entering this function, then the user must manually enter the weight to be set as 100% as described below.
- Make reference weight of 100% on platform.
- Press the [Disp/Mode] key. Display will show 100%.
- The weight entered must be greater than 50 scale divisions.
- Press the [Func/Set] key to select a new weighing mode.

#### NOTE:

The display may jump by large numbers unexpectedly if small weights are used to set as 100% reference. The scale checks if the weight is too small and will show Error 7.

# 6.10 ANIMAL (DYNAMIC) WEIGHING

The scale can be set to animal (dynamic) weighing for weighing any items that are unstable or may move.

The scale will use a special filter to minimise the effects of any movement while the moving animal or unstable samples are on the scale.

- Press [Func/Set] and scroll through the list of functions using the ↑ and ↓ directional keys
- Press [Tare/4] to enter animal weighing. The display will show "LOAD" and the Animal/Dynamic weighing symbol . The scale is now ready to weigh an
  - unstable animal or sample on a weighing scale platform.
- To use the Animal Weighing function it is necessary to set the amount of filtering required for the item to be weighed. More active animals will require a higher level of filtering to give a stable result. Press the [Disp/Mode]. The display will show "Flt x" where x is a value from 1 to 5. The higher the value the greater the amount of filter will be. To increment the value shown press the [1] key then press the [Tare/₄] key to accept it.

# 6.10.1.1 Animal weighing procedure

- With the weighing scale platform empty the indicator display will show "LOAD". Place containers or blankets onto the platform and press the [>0 \( -/Esc \)] key to remove the weight of the containers or blankets, alternatively, a long press on the [Tare/ℯ] key, will retain the container or blanket value as "NET".
- Place the animal or sample to be weighed on the platform.
- Press [Tare/4] key to start to the measurement. The display will show the live measurements until a stable weight is determined. The time it takes for the stable value will depend upon the setting of the filter parameter in the first step.
- When a stable reading is found, the display will show this value, and the display will be locked until the [→0←/Esc] key is pressed. The display will show the "Hold" symbol while the display is locked.



- To weigh a second subject press the [→0←/Esc] key and the display will show "LOAD" and the function will be ready for a new measurement, if necessary to zero the display, press the [→0←/Esc] key again, and then place the next animal on the scale. The scale will detect the new weight and hold it as before.
- The scale will remain in the animal weighing mode until a new mode is selected using the **[Func/ Set]** key and **[Tare/**ℯ**]** key to enter.

# 6.11 ANIMAL 2 (DYNAMIC 2) WEIGHING

The scale can be set to animal 2 (dynamic) weighing for sequential weighing of several items that are unstable.

This function allows the user to load several moving items into the platform at once, the scale will take a measurement of all items included. The function will then ask the user to remove one of the items, and then it will automatically measure and printout the weight of the removed item. The function it will repeat this process until there are no items left, or the user stops the function.

- Press **[Func/Set]** and scroll through the list of functions using the ↑ and ↓ directional keys
- Press [Tare/₄] to enter animal 2 weighing. The display will show "LOAD" and the Animal/Dynamic weighing symbol . The scale is now ready to weigh an unstable animal or sample on a weighing scale platform.
- To use the Animal Weighing function it is necessary to set the amount of filtering required for the item to be weighed. More active animals will require a higher level of filtering to give a stable result. Press the [Disp/Mode]. The display will show "Flt x" where x is a value from 0 to 5. The higher the value the greater the amount of filter will be. To increment the value shown press the [↑] key then press the [Tare/₄] key to accept it.

# 6.11.1 Animal 2 weighing procedure

- With the weighing scale platform empty the indicator display will show "LOAD". Place containers or blankets onto the platform and press the [→0←/Esc] key to remove the weight of the containers or blankets, alternatively, a long press on the [Tare/₄] key, will retain the container or blanket value as "NET".
- Place the animals or sample to be weighed on the platform.
- Press [Tare/] key to start to the measurement. The display will show the live measurements until a stable weight is determined. The time it takes for the stable value will depend upon the setting of the filter parameter in the first step.
- When a stable reading is found, the display will show this value, and the display will

be locked for 2 seconds. The display will show the "**Hold**" symbol while the display is locked.



- After the 2 seconds delay, the display will now show "UNLOAD". Remove one of the animal or items, and press [Tare/+] key to calculate the weight of the removed animal or item. The display will show the live measurements again, until a stable weight is determined.
- When a stable reading is found, the display will show this value, and the display will be locked for 2 seconds. The display will show the "Hold" symbol while the display is locked.
- After the 2 seconds delay, the scale will automatically print out the result. If all the animals or items have been removed, the scale will restart the function and it will show "LOAD", otherwise the scale will continue to run the function and the display will show "UNLOAD", and the function will continue to repeat the measurements and print outs until all the animals or items have been removed. The user can stop/restart the function at any time by pressing the [→0←/Esc] key.
- The scale will remain in the animal weighing mode until a new mode is selected using the [Func/ Set] key and [Tare/4] key to enter.

# 6.12 HOLD/ PEAK FUNCTION

- Press [Func/Set] and scroll through the list of functions using the ↑ and ↓
  directional keys
- Press [Tare/4] to enter 'Hold' or 'Peak' mode. Hold will allow the user to weigh an object and hold the value, whilst the Peak function will allow you to complete multiple weighings and record the peak value.
- Place the object to be weighed onto the weighing platform, "hold" will appear in the top-right corner of the display.
- Once the weight has stabilised, the weight value will remain on the display until either more weight is added onto the weighing pan or the weighing mode is changed.
- If using the "Peak" mode, the recorded "Peak" can be held for set interval, and after that the "Peak" will be deleted automatically if a higher "Peak" hasn't been recorded, the "Peak" release time can be set by pressing the [Unit/ Mode] key and using the directional keys↑ and ↓ to set the "Peak" delete time interval in seconds, or to turn this off [del 2s del 10s, or OFF].
- If the "Peak" release is set to OFF, the [→0←/Esc] key can be used to clear the "Peak", and restart the function

# 7.0 USER PARAMETERS

Pressing the **[Func/Set]** key and holding for 2 seconds during normal operation allows the user to access the parameters for customising the scale. The parameters are split into 2 groups:

- 1. Scale parameters (pressing the **[Func/Set]** key will access this automatically).
- 2. RS-232 parameters (can be accessed by selecting the 'rs 1' and 'rs 2' menu options in the scale parameters menu).

# 7.1 SCALE PARAMETERS

- Pressing the [Func/C] key and holding for 2 seconds during normal operation allows the user to access the parameters.
- Scroll through the list of functions using the ↑ and ↓ directional keys. Press [Tare/↵] to enter a parameter.
- Press [→0←/Esc] to exit the scale parameter section and return to normal weighing.

This group of parameters is used to control the operation of the scale.

Parameter	Description	Options	Default setting
Time	Set Time.	Enter the time manually.	00:00:00
Date	Set date format and settings. Format for date can be changed when the display shows mmddyy, ddmmyy or yymmdd by pressing the <b>[Pcs/</b> ] key, then enter the date.	Enter the date format and then the numeric value manually.	mm:dd:yy
bL	Backlight set to always on, always off or automatic on whenever a weight is placed or a key is pressed	oFF on AUTO	AUTO
Power	Disable or set time increment to turn off scale	0 1 2 5 10 15 Off	2
Key bp	Key beeper settings	On Off	On

Chl. b.a	Chaplaysiahina larasa	1	La
Chk bp	Checkweighing beeper	In Out	In
	settings	Out	
		Off	
Unit	Enable or disable weighing	Kg	Kg
	units, will not allow to	Grams	
	disable all units, at least one	lb	
	has to be enabled. Parts	oz	
	counting can be	lb:oz	
	enabled/disabled	N (Newtons)	
		PCS	
Auto-Z	Auto zero settings	0.5	0.5
		1	
		1.5	
		2	
		2.5	
		3	
Filter	Filter setting to slow, normal	Slower	Faster
	or fast	Slowest	
		Faster	
		Fastest	
		Then: 1-6	
Rs 1	Brings up the 1st RS232	PC	
	menu. Includes PC,	Cmd	
	command and print settings	Print	
Rs 2	Brings up RS232 menu 2	PC	
		Cmd	
S-id	Set Scale ID	To be entered manually	000000
U-id	Set User ID	To be entered manually	000000
rechar	Indicates time to recharge	-	-

# 7.2 RS-232 PARAMETERS

This group of parameters can be set by the user for setting the RS-232 active or not, baud rate, printing mode, accumulation mode, RS-232 language, and user or scale ID numbers.

- Pressing the [Func/Set] key and holding for 2 seconds during normal operation allows the user to access the parameters.
- Scroll through the list of functions using the ↑ and ↓ directional keys. Press [Tare/₄] to enter the 'rs 1' or 'rs 2' parameters when appearing on the display.
- 'Rs 1' will provide access to 'Print', 'PC' and 'Cmd' settings. 'Rs 2' includes 'PC' and 'Cmd' only. Press [Tare/4] to confirm.
- When entering a mode, the user will be required to go through each step of the process by entering the desired values or selecting from the options listed in the table below and pressing the **[Tare/**4] key to confirm.
- Press [→0←/Esc] to exit the scale parameter section and return to normal weighing.

# 7.2.1 Print settings

Parameter	Description	Options	Default Values or setting
[baud rate]	Baud Rate	1200 2400 4800 9600 19200 38400 57600 115200	9600
[Language]	Select Language	EnGLis (English) FrEnCH (French) GErmAn (German) SPAn (Spanish) Portug (Portuguese) Itail (Italian)	EnGLis
[Accumulation]	Enable or disable the Accumulation	on oFF	off
[Printing mode]	Printing Mode- Manual or Automatic	mAn, AUto P	mAn
[Printer/device]	Select the printer or device to print to	ATP LP50	ATP
[Number of copies]	copies	Copy 1 Copy 2 Copy 3 Copy 4 Copy 5 Copy 6 Copy 7 Copy 8	Copy 1
[Print layout]	Select complex or simple print layout	Comp Simp	Comp
[Line break]	Select the number of line breaks between weight values on label.	1 Lfcr 2 Lfcr 3 Lfcr 4 Lfcr 5 Lfcr 6 Lfcr 7 Lfcr 8 Lfcr 9 Lfcr	1 Lfcr

Scale will perform the following, depending on the Accumulation and Print Settings:

ACCUMULATION SETTINGS	AC on	AC Off
PRINT SETTINGS		
AUto	Accumulate and print automatically	Print automatically, Do not accumulate
mAn	Accumulate and Print only when [Print/M+/Esc] key pressed. If [Print/M+/Esc] is pressed a second time only print the weight.	

# 7.2.2 PC settings

Parameter	Description	Options	Default Values or setting
[baud rate]	Baud Rate	1200	9600
		2400	
		4800	
		9600	
		19200	
		38400	
		57600	
		115200	
[Model]	Select the scale/model	Adam	Adam
	being used.	CBK	
		NBL	
[Interval]	Select the interval per	Int 0 (continuous)	Int 0
	second for sending data	Int 0.5	
	to a PC.	Int 1	
		Int 2	

# 7.2.3 Command settings

Parameter	Description	Options	Default Values or setting
[baud rate]	Baud Rate	1200	9600
		2400	
		4800	
		9600	
		19200	
		38400	
		57600	
		115200	

# 8.0 BATTERY OPERATION

- The scales can be operated from the battery if desired. The battery life can be up to 90 hours depending on the load cells used and how the backlight is used.
- When the battery needs charging a symbol on the display will show less bars in the battery symbol. The battery should be charged when only the battery outline is on. Once the bars have been turned off the scale will still operate for a short time after which it will automatically switch off to protect the battery.
- To charge the battery, simply plug the adaptor into the mains power. The scale does not need to be turned on.
- The battery should be charged for 12 hours for full capacity.
- Near the display is an LED to indicate the status of battery charging. When
  the scale is plugged into the mains power the internal battery will be charged.
  If the LED is green the battery has a full charge. If it is Red the battery is
  nearly discharged and yellow indicates the battery is being charged.

# 9.0 RS-232 INTERFACE

AGB scales are supplied with bi-directional RS-232 interface as standard. The scale when connected to a printer or computer outputs the weight with the selected weighing unit through the RS-232 interface.

Specifications:

RS-232 output of weighing data

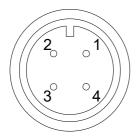
ASCII code

9600 Baud (user selectable)

8 data bits

No Parity

RS-232 serial interface is a plug as figure 2 shows:



- 1: Pin GND, Signal Ground
- 2: Pin RXD, Received Data
- 3: Pin TXD, Transmitted Data

#### As viewed from the back of the indicator

The scale can be set to print text in English, French, German, Spanish, Italian or Portuguese. See the RS-232 parameters section for details.

# **DATA FORMAT - COMPLETE WEIGHT**

<cr><lf><cr><lf>&lt;</lf></cr></lf></cr>			
Date	12/09/2006	<cr><lf></lf></cr>	
Time	14:56:27	<cr><lf></lf></cr>	
<cr><lf></lf></cr>			
Scale ID	123456	<cr><lf></lf></cr>	If ID is zero, it is left blank
User ID	234567	<cr><lf></lf></cr>	
<cr><lf></lf></cr>			
Net Wt	1.234 Kg	<cr><lf></lf></cr>	Net Wt. (or Gross Wt.)
Tare Wt.	0.000kg		
Gross Wt.	1.234 Kg		
<cr><lf></lf></cr>			

# **Data Format-Parts Counting Output:**

Weight, Unit weight and number of parts are printed.

```
<cr><lf>
<cr><lf>
              12/09/2006 <cr><lf>
Date
              14:56:27 <cr><lf>
Time
<cr><lf>
                  123456 <cr><lf>
Scale ID
User ID
                  234567 <cr><lf>
<cr><lf>
                                        Net Wt. (or Gross Wt.)
Net Wt.
             1.234 Kg <cr><lf>
Unit Wt.
                                         g for metric and lb for pounds
               123 g <cr><lf>
Pieces
                   10 pcs <cr><lf>
<cr><lf>
<cr><lf>
<cr><lf>
<cr><lf>
```

# **DATA FORMAT – HOLD**

```
<cr><lf>
<cr><lf>
             12/09/2006 <cr><lf>
Date
             14:56:27 <cr><lf>
Time
<cr><lf>
Scale ID
               123456 <cr><lf>
User ID
                234567 <cr><lf>
<cr><lf>
Hold Wt.
             1.000 Kg <cr><lf>
<cr><lf>
<cr><lf>
<cr><lf>
<cr><lf>
```

# DATA FORMAT - PEAK HOLD

```
<cr><lf>
<cr><lf>
Date
             12/09/2006 <cr><lf>
             14:56:27 <cr><lf>
Time
<cr><lf>
Scale ID
               123456 <cr><lf>
User ID
                234567 <cr><lf>
<cr><lf>
Peak Holt Wt. 1.500 Kg <cr><lf>
<cr><lf>
<cr><lf>
<cr><lf>
<cr><lf>
```

#### **DATA FORMAT - ANIMAL**

```
<cr><lf>
<cr><lf>
Date
            12/09/2006 <cr><lf>
            14:56:27 <cr><lf>
Time
<cr><lf>
Scale ID
               123456 <cr><lf>
               234567 <cr><lf>
User ID
<cr><lf>
             1.500 Kg <cr><lf>
Animal Wt.
<cr><lf>
<cr><lf>
<cr><lf>
<cr><lf>
```

#### **DATA FORMAT - PERCENT**

```
<cr><lf>
<cr><lf>
             12/09/2006 <cr><lf>
Date
Time
            14:56:27 <cr><lf>
<cr><lf>
Scale ID
               123456 <cr><lf>
User ID
               234567 <cr><lf>
<cr><lf>
            1.500 Kg <cr><lf>
Net Wt.
Ref Wt.
            1000kg
Percent
             150.00%
<cr><lf>
<cr><lf>
<cr><lf>
<cr><lf>
```

## **DATA FORMAT - SIMPLE**

```
<cr><lf>
<cr><lf>
Net Wt.
              1.500 Kg <cr><lf>
<cr><lf>
Hold Wt.
              1000kg
Peak holt wt. 1000kg
Animal wt. 1000kg
Ref. wt. 1000kg
Percent
               150.00%
<cr><lf>
Unit wt.
             1.0234g
Pieces
             1000 PCS
<cr><lf>
<cr><lf>
<cr><lf>
```

#### DATA FORMAT- CONTINUOUS OUTPUT- NORMAL WEIGHING:

```
ST,GROSS 1.234 Kg <cr><lf>US,NET 0.000 Kg <cr><lf>or ST or US for STable or UnStable, NET or GROSS for Net Weight or Gross wt. and the weighing unit, kg, lb etc.
```

# DATA FORMAT- CONTINUOUS OUTPUT- PARTS COUNTING:

```
      ST Net
      1.234 Kg <cr>
        Cr><lf>
      Net Weight (or Gross wt.)

      U.W.
      123 g <cr>
        Cr><lf>
      Kg and g for metric and Lb for pounds

      PCS
      10 pcs <cr>
      Cr><lf>

      <cr><lf>
```

#### NOTE:

- 1. The accumulated total will not be sent to the RS-232 when the continuous print is turned on.
- 2. The continuous print will only be for the current weight and the display data.
- 3. In other languages the format is the same but the text will be in the language selected.

Date   Date   Date   Datum   Fecha   Data   Data   Data	Description	ENGLISH	FRENCH	GERMAN	SPANISH	ITALIAN	PORTUGUESE
Time (hh:mm:ss)   Time   Heure   Zeit   Hora   Ora   Hora		Date	Date	Datum	Fecha	Data	Data
Scale   Identification   Number   User ID   Util ID   Nutzer ID   Usuario ID   ID Utiliz.   ID							
Identification   Number   User ID   Util ID   Nutzer ID   Usuario ID   ID Utiliz.		Time	Heure	Zeit	Hora	0ra	Hora
Number   User ID   Util ID   Nutzer ID   Usuario ID   ID Utiliz.   ID Utiliz.							
User Identification Number   User ID   Util ID   Nutzer ID   Usuario ID   ID Utiliz.   ID Utiliz.		Scale ID	Bal ID	Waagen ID	Bal ID	ID Bilancia	ID Bal.
Number Net Weight Net Wt. Net Weight Net Wei							
Net Weight Net Wt. Pds Net Netto-Gew Pso Neto Pso Neto Pso Líq.  Tare Weight Tare Wt. Pds Tare Tara-Gew Pso Bruto Pso Lordo Pso Bruto Pso Animal Pso Anima		User ID	Util ID	Nutzer ID	Usuario ID	ID Utiliz	ID Utiliz
Tare Weight Tare Wt. Pds Tare Tara-Gew Pso Tara Pso Tara Pso Tara Gross Weight Gross Wt. Pds Brut Brut-Gew Pso Bruto Pso Lordo Pso Bruto Total Weight Total Wt. Pds Total Ges-Gew Pso Total Pso Tota							
Gross Weight Gross Wt. Pds Brut Brut-Gew Pso Bruto Pso Lordo Pso Bruto Total Weight Total Wt. Pds Total Ges-Gew Pso Total Pso							•
Total Weight Total Wt. Pds Total Ges-Gew Pso Total Pso Total Pso Total Unit Weight Unit Wt. Pds Unité Gew/Einh Pso/Unid Pso/Unità Pso/Unid		Tare Wt.	Pds Tare	Tara-Gew	Pso Tara	Pso Tara	Pso Tara
Unit Weight Unit Wt. Pds Unité Gew/Einh Pso/Unid Pso/Unità Pso/Unid Pieces Pieces Stck Piezas Pezzi Peças High Limit, set by user Low Limit Lim. Supérieure Low Limit, set by user Low Limit Lim. Supérieure Low Limit, set by user Low Limit Lim. Supérieure Low Limit Inférieure Lim. Inférieure Untergrenze Lim. Inferior Lim. Inferior Number of parts are below the limits Number of parts are above the limits Number of parts are within the limits Number of parts are within the limits Reference weight Ref. Wt. Pds Ref Percentage Percent Percentage Percent Animal Weight Animal Wt. Pds Animal Peak Hold Weight Peak Hold Weight Peak Hold Pds de Pes Mais Alto Pes Animal Pes An		Gross Wt.	Pds Brut	Brut-Gew	Pso Bruto	Pso Lordo	Pso Bruto
Pieces Pieces Pièces Stck Piezas Pezzi Peças High Limit, set by user Low Limit, set by user Low Limit Lim. Supérieure Low Limit, set by user Low Limit Lim. Supérieure Low Limit, set by user Low Limit Lim. Inférieure Lim. Inférieure Lim. Inferior Lim. Superior Lim. Superior Lim. Superior Lim. Superior Lim. Superior Lim. Superior Lim. Inferior ABAIXO DO LIMITE LIMITE Number of parts are above the limits Number of parts are within the limits ACCEPT ACCEPTER ACCEPTER AKZEPTIEREN ACEPTAR ACCETTO ACEITAR ACEITAR ACEITAR ACEITAR ACEITAR ACIMA DO LIMITE Limits Percentage Percentage Percentage Percentage Percentage Percentage Percentage Animal Weight Animal Wt. Pds Animal Tier-Gew Pso Animal Pso Animale Pso Guardado Peak Hold Weight Peak Hold Weight Peak Hold Pds de Piezas Piezas Pegas Pezzi Peças Pezzi Peças Pezzi Percent Peso Mais Alto Peace Percent Percent Percent Percent Percent Pso Mais Alto Pso Mais Alto Pso Mais Alto Peace Percent Per	Total Weight	Total Wt.	Pds Total	Ges-Gew	Pso Total	Pso Totale	Pso Total
High Limit, set by user  Low Limit, set by user  Lim. Supérieure  Lim. Inférieure  Lim. Superior  Lim. Superior  Lim. Superior  Lim. Superior  Lim. Superior  Lim. Inférieure  Lim. Superior  Lim. Inférieure  Lim. Inférior  Lim. Inférior  Lim. Inférior  Lim. Superior  Lim. Superior  Lim. Superior  Lim. Superior  Lim. Inférior  Lim. Inférior  Lim. Inférior  Lim. Inférior  Lim. Superior  ABAIXO DO LIMITE  ACIMA DO LIMITE  ACIMA DO LIMITE  ACIMA DO LIMITE  PSOR IL  ACIMA DO LIMITE  ACIMA DO LIMITE  ACIMA DO LIMITE  ACIMA DO LIMITE  PSOR IL  ACIMA DO LIMITE  A	Unit Weight	Unit Wt.	Pds Unité	Gew/Einh	Pso/Unid	Pso/Unità	Pso/Unid
Low Limit, set by user  Low Limit Lim. Inférieure  Number of parts are below the limits  Number of parts are above the limits  Number of parts are within the limits  Reference weight Reference weight Animal Wt. Pds Animal Hold Weight  Peak Hold Weight  Low Limit Supérieure  Lim. Inferior Lim. Inferior Lim. Inferior Inferior Lim. Inferior Lim. Inferior Lim. Inferior Lim. Inferior Inferior Lim. Inferior Inferior Lim. Inferior Lim. Inferior Inferior Inferior Lim. Inferior Inferior Lim. Inferior Inferior Inferior Lim. Inferior Inferior Inferior Inferior Lim. Inferior Inferior Lim. Inferior In	Pieces	Pieces	Pièces	Stck	Piezas	Pezzi	Peças
Low Limit, set by user  Low Limit  Lim. Inferieure  Number of parts are below the limits  Number of parts are above the limits  Number of parts are within the limits  Reference weight  Percentage  Animal Weight  Peak Hold Weight  Low Limit  Lim. Inferior  ABAIXO DO Limita  ACIMA DO Limita  ACI	High Limit, set by	Himb Limit	Lim.	Oharmana	Lim.	Lim.	Lim Cumprior
Low Limit, set by user    Low Limit   Lim. Inférieure   Untergrenze   Lim. Inferior   Lim. Inferior   Lim. Inferior	user	High Limit	Supérieure	Obergrenze	Superior	Superiore	Lim. Superior
Number of parts are below the limits  Number of parts are above the limits  Number of parts are above the limits  Number of parts are above the limits  Number of parts are within the limits  Reference weight Ref. Wt. Pds Ref Ref-Gew Pso Ref Pso Rif Pso Ref  Percent Pourcentage Prozentsatz Porcentaje Percentuale Percentagem  Animal Weight Animal Wt. Pds Animal Tier-Gew Pso Animal Pso Animal Pso Animal Pso Guardado  Peak Hold Weight Peak Hold Pds de Höchstwert-Pso Mas Alto Pso di Punta Pso Mais Alto	Low Limit, set by	1 1 ! !!	Lim.	Hadaaaaaa	-	Lim.	lim Infanian
ABAIXO DO LIMITE  INTERIEUR A LA LIMITE  Number of parts are above the limits  Number of parts are within the limits  Number of parts are within the limits  ACCEPT  ACCEPTER  ACCEPTAR  ACCETTO  ACCETTO  ACCETTO  ACCETTAR  ACCETTO  ACCETTAR  ACCETTO  ACCETTAR  ACCETTO  ACCETTAR  Prozentage  Percentage  Percentage  Animal Weight  Animal Wt.  Hold Wt.  Animal Wt.	user	LOW LIMIT	Inférieure	untergrenze	Lim. Interior	Inferiore	Lim. Interior
Number of parts are above the limits  Number of parts are within the limits  Reference weight  Percentage  Animal Weight  Hold Wt.  Pas Animal  Peak Hold Weight  LIMIT  LA LIMITE  SUPÉRIEUR À LA LIMITE  BUBER DER GRENZE  UBER DER GRENZE  LÍMITE  LIMITE  LIMITE  LIMITE  LIMITE  ACCIMA DO LIMITE  LIMITE  ACCIMA DO LIMITE  ACCIMA DO LIMITE  LIMITE  ACCIMA DO LIMITE  ACIMA DO LIMITE  ACCIMA	Number of parts	DELOW/THE	ΙΝΙΕΈΡΙΕΙ ΙΡ λ	LINTED DED	DEDATO DEL	COTTO II	
Number of parts are above the limits  Number of parts are within the limits  Number of parts are within the limits  Reference weight  Percent  ACCEPT  ACCEPTER  ACCEPTAR  ACCEPTAR  ACCEPTAR  ACCEPTAR  ACCEPTO  ACCEPTAR  ACCEPTO  ACCEPTAR  ACCEPTO  ACCEPTAR  ACCEPTO  ACCEPTAR  Prozentsatz  Percentage  Percentage  Animal Weight  Animal Wt.  Animal Wt		-	_				ABAIXO DO LIMITE
ACCEPT ACCEPTER ACCEP		LIIVIII	LALIIVIIIE	GREINZE	LIIVIIIE	LIIVIIIE	
ACCEPT ACCEPTER ACCEP		AROVE THE	SUPÉRIFUR	ÜRFR DFR	ENCIMA DEI	SOPRA II	
Number of parts are within the limits  Reference weight Ref. Wt. Pds Ref Percentage  Percent Percent Animal Weight Animal Wt. Pds Animal Tier-Gew Pso Animal Pso Animal Pso Animal Pso Animal Pso Guardado  Peak Hold Weight Peak Hold Pds de Höchstwert-  NACEPTAR ACCETTO ACCETTO ACCETTAR  ACCETTO Pso Ref Pso Animal Pso Animal Pso Animal Pso Animal Pso Animal Pso Guardado Pso Guardado Pso Guardado Pso Mais Alto Ps			_		_		ACIMA DO LIMITE
are within the limits  Reference weight Ref. Wt.  Pds Ref Ref-Gew Prozentsatz Percent Percent Percent Pourcentage Prozentsatz Prozentsatz Prozentsatz Prozentsatz Prozentsatz Prozentaje Pr		LIIVIII	ALALIWITE	OKLIVEL	LIIVIIIL	LIIVIIIL	
Reference weight   Ref. Wt.   Pds Ref   Ref-Gew   Pso Ref   Pso Ref   Pso Ref	•						
Reference weight       Ref. Wt.       Pds Ref       Ref-Gew       Pso Ref       Pso Ref       Pso Ref         Percentage       Percent       Pourcentage e       Prozentsatz       Porcentaje       Percentuale       Percentagem         Animal Weight       Animal Wt.       Pds Animal       Tier-Gew       Pso Animal       Pso Animal       Pso Animal         Hold Weight       Hold Wt.       Pds Tenu       Halt-Gew       Pso Ref       Pso Animal       Pso Guardado         Peak Hold Weight       Peak Hold       Pds de       Höchstwert-       Pso Mas Alto       Pso Mais Alto		ACCEPT	ACCEPTER	AKZEPTIEREN	ACEPTAR	ACCETTO	ACEITAR
Percentage  Percent Pourcentage Prozentsatz Porcentaje Percentuale Percentuale Percentagem  Animal Weight Animal Wt. Pds Animal Tier-Gew Pso Animal Pso Animal Pso Animal Pso Animal Pso Guardado Peak Hold Weight Peak Hold Peak Hold Peak Hold Peak Hold Peak Hold Peak Hold Percentagem Pso Animal Pso Animal Pso Guardado Pso Guardado Pso Mais Alto Pso Mai		D 6116		5.60		D 016	
Animal Weight Animal Wt. Pds Animal Tier-Gew Pso Animal Pso Guardado  Peak Hold Weight Peak Hold Pds de Höchstwert- Pso Mas Alto Pso Mais Alto		Ref. Wt.		Ket-Gew	PSO Ket	PSO KIT	PSO Ket
Animal Weight Animal Wt. Pds Animal Tier-Gew Pso Animal	Percentage	Percent		Prozentsatz	Porcentaje	Percentuale	Percentagem
Hold Weight Hold Wt. Pds Tenu Halt-Gew Retenido Pso Guardado Peak Hold Weight Peak Hold Pds de Höchstwert- Pso Mas Alto Pso di Punta Pso Mais Alto	Animal Weight	Animal W+		Tior-Cow	Dea Animal	Dea Animala	Dea Animal
Peak Hold Weight Peak Hold Pds de Höchstwert- Pso Mas Alto Pso di Punta Pso Mais Alto		Ailliai Wt.	i us millial	1161-0CW			i so Millilai
Peak Hold Weight Peak Hold Pds de Höchstwert- Pso Mas Alto Pso di Punta Pso Mais Alto	TIOIU VVEIGIIL	Hold Wt.	Pds Tenu	Halt-Gew			Pso Guardado
Den Mac Alto   Den Maic Alto   Den Maic Alto	Peak Hold Weight	Peak Hold	Pds de	Höchstwert-			
	- cantriola troigin	Wt.	Crete	Gew	Pso Mas Alto	Pso di Punta	Pso Mais Alto

# 9.1 INPUT COMMANDS FORMAT

The scale can be controlled with the following commands. Press the **[Enter]** key on the PC after each command.

T <cr><lf></lf></cr>	Tares the scale to display the net weight. This is the same as pressing [Tare/4].
Z <cr><lf></lf></cr>	Sets the zero point for all subsequent weighing. The display shows zero.
P <cr><lf></lf></cr>	Prints the results to a PC or printer using the RS-232 interface. It also adds the value to the accumulation memory if the accumulation function is not set to automatic.

## 10.0 CALIBRATION

AGB scales calibrate using either metric or pound weights, depending on the weighing unit in use before calibration. The display will show either "kg" or "lb" to identify the weights expected.

The scale can be calibrated using the following procedure:

- Turn on the power and wait for the scale to configure.
- Before configuration is completed, hold down the **[Tare]** ✓ key to bring up the user password information screen.
- To enter the password, use the directional buttons ↑ or ↓ to scroll through numbers 1-9. Use the → directional key to move to the next digit.
- Entering the correct password [1000] will bring you to the user setup menu.
- Within the menu, use the directional buttons ↑ or ↓ to scroll through the settings until **'U-cal'** appears on the display. Press the **[Tare]** ✓ key to select.
- After pressing **[Tare]** ♣, 'noload' should appear on the display. Use the directional button ↑ to switch to 'load1' and set the desired weight limit of the test object to be placed on the scale using the ↑ or ↓ directional buttons and the → directional key to move to the next digit. Press the **[Tare]** ♣ key to confirm.
- After pressing **[Tare]** �, '**Load**' will appear on the display. Place the calibration test weight that matches the weight previously entered onto the scale weighing pan and press the **[Tare]** � key to confirm.
- Pressing Tare should bring up the 'Load 2' option on the display. Follow the same procedure as before by setting a new weight and adding the appropriate calibration weight and press the [Tare] & key to confirm.
- Pressing **[Tare]** ← will reconfigure the scale and bring the user back to the regular weighing mode.

# 11.0 ERROR CODES

ERROR CODES	DESCRIPTION	SUGGESTIONS
oL	Over-range	Remove weight from the scale. If the problem persists contact your dealer or Adam Equipment for assistance.
Err 1	Time Setting Error	Enter time using correct format and reasonable values. Format: hh:mm:ss
Err 2	Date Setting Error	Enter date using correct format and reasonable values. Format: yy:mm:dd
Err 4	Zero Setting Error	The scale was outside the normal zero setting range either when it was turned on or when the <b>[Zero]</b> key was pressed. Remove weight from the scale and try re-zeroing again. Use the <b>[Z/T]</b> key to set the display to zero value. If the problem persists contact your dealer or Adam Equipment for assistance.
Err 6	A/D out of range	The values from the A/D converter are outside the normal range.

		Remove the weight from the scale if overloaded.  Make sure the pan is attached.  Indicates the load cell or the electronics may be faulty.  If the problem persists contact your dealer or Adam Equipment
		for assistance.
Err 9	Check weigh limits	Shown if the low limit is set higher than the current high limit.
	error	Reset High limit or different low limit.
FAIL	Calibration error.	Improper calibration (should be within ± 10% of the factory calibration). The old calibration data will be retained until the calibration process is complete.  If the problem persists contact your dealer or Adam Equipment for assistance.

# 12.0 REPLACEMENT PARTS AND ACCESSORIES

If you need to order any spare parts and accessories, contact your supplier or Adam Equipment. A partial list of such items is as follows-

Power Supply Module	Printer, etc.
<ul> <li>Replacement Battery</li> </ul>	

# 13.0 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.)

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:	

# 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 STATEMENT

Adam Equipment offers Limited Warranty (Parts and Labour) for any components that fail 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 at no additional cost, 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.

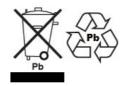
This product may include a rechargeable battery that is designed to be removed and replaced by the user. Adam Equipment warrants that it will provide a replacement battery if the battery manifests a defect in materials or workmanship during the initial period of use of the product in which the battery is installed.

As with all batteries, the maximum capacity of any battery included in the product will decrease with time or use, and battery cycle life will vary depending on product model, configuration, features, use, and power management settings. A decrease in maximum battery capacity or battery cycle life is not a defect in materials or workmanship, and is not covered by this Limited Warranty.

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

The statutory rights of the purchaser are 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.

#### IEC 61140

The product complies with class 1 according to IEC 61140 standard – Protection against electric shock.

#### **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 9001:2015 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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