

6.0 PARAMETERS

Non-approved balances have 8 parameters that can be set by the user.

FUNCTION	SECTION	DESCRIPTION
F1 UNT	See section 6.1	Sets the units to be used g / ct / Lb / oz / d / GN / OZt / dWt / MM / TL.T / TL.C / TL.t / t / N / g2.
F2 EL	See section 6.2	Sets the backlight and audible alert beep (SW ver. 2.5 onwards)
F3 SEr	See section 6.3	Sets the print parameters
F4 oFF	See section 6.4	Sets the auto power-off parameter
F5 IEC	See section 6.5	Internal or external calibration select
F6 CA	See section 6.6	Cal mass fine adjust
F7 SEt	See section 6.7	User Parameters for autozero, filter and stability
tECH	Service agents only	Technical parameters setting mode / factory setting

Approved balances have 4 parameters that can be set by the user.

FUNCTION	SECTION	DESCRIPTION
F1 EL	See section 6.2	Sets the backlight and audible alert beep (SW ver. 2.5 onwards)
F2 SEr	See section 6.3	Sets the print parameters
F3 oFF	See section 6.4	Sets the auto power-off parameter
F4 SEt	See section 6.7	User Parameters for autozero, filter and stability
tECH	Service agents only	Technical parameters setting mode / factory setting

6.1 ENABLING WEIGHING UNITS (NOT APPROVED MODELS)

You can enable and disable the weighing units available to the user when they press the **[Mode]** key as described in section 4.4 *Weighing Units*.

- 1) To set this parameter press and hold the **[Mode]** key during self-checking test when turning on the balance.
- 2) After a few seconds, the display will show the first function F1 UNT.
- 3) Press the **[->0/T<-]** key to view the current settings of each unit.

- 4) Pressing the [->0/T<-] key will cycle through the other units along with their current settings. For example, if OFF is displayed with the weighing unit Carats, the user will not be able to use this unit while weighing.
- 5) Pressing the **[Mode]** key will change the setting of a particular unit. For example, to enable the weighing unit Carats, change the setting to on by pressing the **[Mode]** key.
- 6) When F1 Unt is displayed, you can press the **[Print]** key to return to weighing or press **[Mode]** to go to the next function.

The following table shows different units which are available to the user and the conversion factors for each (Note: Approved models have g / kg /ct only).

NAME OF THE UNITS	DESCRIPTION	CONVERSION FACTOR	DISPLAY SYMBOL
Grams	A standard metric unit	1.0	g
Carats	Used for weighing jewelry and gems, etc.	5.0	ct
Pounds	Standard weighing unit in UK/USA. *	0.0022046	Lb
Ounce	Avoirdupois ounce. 16 ounces make a pound.	0.035274	oZ
Drams	An ancient unit of weight. Equal to 1/16 th of an ounce.	0.564383	d
Grains	A basic weighing unit in the imperial system. Used to weigh gun powder.	15.43236	GN
Ounce Troy	Troy ounce- used for weighing gold, silver and in pharmacy.	0.03215075	oZt
Pennyweight	Pennyweight was the weight of a silver penny in medieval England. Equals to 1/20 th of an Ounce Troy.	0.6430149	dwt
Mommes	A weighing unit used in Japan to weigh pearls.	0.266667	MM
Taels Hk.	Hongkong Taels- used to weigh coral, pearls, etc.	0.026717	TL.H
Taels C.	China (Singapore)Taels	0.026455	TL.C
Taels t.	Taiwan Taels	0.026667	TL.t
Tola	An Asian weighing unit	0.085735	t
Newtons	Used to measure force	0.009807	N
Grams	Grams with last digit suppressed	1.0	g2
Tales J.	Japan Taels	0.026717	TL.J
* Lbs are not available on HCB 123 Model			

6.2 SETTING THE BACKLIGHT AND AUDIBLE ALERT BEEP

The backlight and audible alert may be enabled or disabled by the user. If the backlight is disabled, the battery life will be greater. The following settings are available: (beep settings available in SW ver. 2.5 onwards)

bL AU	Sets the backlight to operate automatically when a weight is placed on the balance or a key is pressed.
bL Off	Sets the backlight to be off.
bL On	Sets the backlight to be permanently on.
bP on	Sets audible alert beep on
bP OFF	Sets audible alert beep off

- 1) To set this parameter press the **[Mode]** key during self-checking test when turning on the balance.
- 2) After a few seconds, the display will show the first function F1 UNT.
- 3) Press the **[Mode]** key to select F2 EL .
- 4) Press the **[->0/T<-]** key once to view the current settings for the backlight, and twice to view settings for the alert beep.
- 5) To change the settings press the **[Mode]** key to scroll through other settings as shown above.
- 6) Press **[->0/T<-]** to store a particular setting. Press again until the display returns to F2 EL
- 7) When F2 EL is displayed press the **[Print]** key to return to weighing or press **[Mode]** to go to the next function.

6.3 SETTING THE PRINTING PARAMETERS / ACCUMULATION

- 1) To set this parameter press the **[Mode]** key during self-checking test when turning on the balance.
- 2) After a few seconds, the display will show the first function F1 UNT.
- 3) Keep pressing the **[Mode]** key until F3 SEr is displayed.

- 4) Press the [->0/T<-] key to view the current settings.
- 5) First select which communication port you wish to configure and set (only one port can be used at a time).

The screen will show S 232 or S USb. Press the **[Mode]** key to select which interface you would like to use. Press [->0/T<-] to confirm setting and configure interface.

- 6) The following options are available for setting the output and accumulation functions:

MODE	PRINT FEATURE	ACCUMULATION
P1 Prt	Data is sent whenever the [Print] key is pressed.	Manual accumulation when the [Print] key is pressed.
P2 Con	Data is sent continuously.	Accumulation is disabled.
P3 AUT	The weighing results will be sent to the communication port automatically whenever a stable reading is present. The balance has to return to zero before another reading is sent via the interface.	Automatic accumulation when stable

Press the **[Mode]** key to change the setting. Press [->0/T<-] to confirm and move to the next parameter.

- 7) Setting the baud rate. This is the transmission speed for communication with printers and computers. The selected rate must match that of the other device for communications to work.

The following settings are available:

b 600
b 1200
b 2400
b 4800
b 9600

Press the **[Mode]** key to change the setting. Press **[->0/T<-]** to confirm and move to the next parameter.

- 8) Parity settings. Parity is a communications check. There are 3 settings that the Highland can work with as follows:

8 n 1	8 data bits, no parity
7 E 1	7 data bits, even parity
7 O 1	7 data bits, odd parity

Press the **[Mode]** key to change the setting. Press **[->0/T<-]** to confirm and move to the next parameter.

- 9) Format settings. The scale will print either using a format that includes stability indications or one with only the weight. There are 2 settings that the Highland can work with as follows:

F0r 1	Data format is with line headings and extra line feeds as shown in section 9.3
F0r 2	Data format is weight only

Press the **[Mode]** key to change the setting. Press **[->0/T<-]** to confirm and move to the next parameter.

- 10) The display will go back showing F3 SEr. Press the [Print] key to return to weighing or press **[Mode]** to go to the next function.

6.4 AUTO POWER OFF

The auto power off function helps conserve power, when using the internal rechargeable battery or DC adapter. The Auto switch-off time may be set up by the user.

- 1) To set this parameter press the **[Mode]** key during self-checking test when turning on the balance.

- 2) After a few seconds, the display will show the first function F1 UNT.
- 3) Keep pressing the **[Mode]** key until F4 OFF is displayed.
- 4) Press the **[->0/T<-]** key to view the current settings.
- 5) Press **[Mode]** to change the settings (0, 5, 10, 20 and 30 minutes).
- 6) Press **[->0/T<-]** to store a particular setting. The display will return to F4 OFF
- 7) When F4 OFF is displayed press the **[Print]** key to return to weighing or press **[Mode]** to go to the next function.

6.5 SELECTING THE INTERNAL OR EXTERNAL CALIBRATION (NOT POSSIBLE ON APPROVED MODELS)

You can select if the internal mass or an external mass is to be used to calibrate the balance.

- 1) To set this parameter press the **[Mode]** key during self-checking test when turning on the balance.
- 2) After a few seconds, the display will show the first function F1 UNT.
- 3) Keep pressing the **[Mode]** key until F5 IEC is displayed.
- 4) Press the **[->0/T<-]** key to view the current settings.
- 5) To change the settings press the **[Mode]** key to change from INt (internal calibration) or E (external calibration)
- 6) Press **[->0/T<-]** to store a particular setting. The display will return to F5 IEC
- 7) When F5 IEC is displayed press the **[Print]** key to return to weighing or press **[Mode]** to go to the next function.

6.6 ADJUST THE VALUE OF THE INTERNAL MASS (NOT POSSIBLE ON APPROVED MODELS)

The internal mass value stored in memory can be adjusted to more closely match the value of the user's external mass.

- 1) To set this parameter press the **[Mode]** key during self-checking test when turning on the balance.
- 2) After a few seconds, the display will show the first function F1 UNT.
- 3) Keep pressing the **[Mode]** key until F6 CA is displayed.
- 4) Press the **[->0/T<-]** key to view the current settings.
- 5) The display will show the current value with the first digit flashing. To change the value press **[%]** to shift the position, press **[Mode]** to increase the value and press **[Print]** to decrease the value. The internal calibration weight should only change between 95.000 and 105.000 grams or 495.00 and 505.00 grams (depending upon the model).



- 6) Press **[->0/T<-]** to store a particular setting. The display will return to F6 CA

- 7) When CA is displayed, press the **[Print]** key to return to weighing or press **[Mode]** to go to the next function.

Changing the value of the internal weight will affect the calibration when using the internal calibration. To check if your internal weight is correct you should only use high quality weights that are accurate to the readability of the balance.

6.7 SETTING USER PARAMETERS

The balance has a number of parameters the user can adjust.

DISPLAY	DESCRIPTION	DEFAULT VALUE
n FIL	Filter settings, 1, 2 or 3 1 is the fastest filter, 3 is the slowest.	1 FIL
n ZEO	The Automatic Re-zero range 0 to 8, 0 being with auto zero off, and 8 is the zero range of 4 divisions.	4 ZEO
n STA	Stability symbol range, 0 to 5 0 is the smallest stability range and 5 is largest.	2 STA
n ZTR	Weight Tracking Range, 0 to 5	3 ZTR

Press the **[->0/T<-]** key to view the current settings.

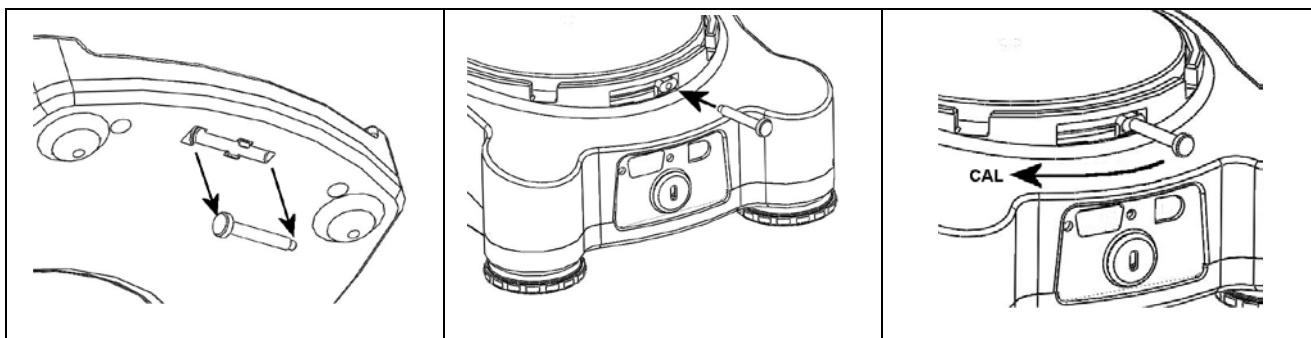
To change the settings press the **[Mode]** key. Press the **[->0/T<-]** key to advance to the next parameter. When completed the display will show F7 SET again.

Pressing **[Mode]** will then show TECH. This function is a manufacturing function for qualified technicians only and you can press **[Mode]** again to scroll through parameter options, or press **[Print]** to return to normal weighing.

7.0 CALIBRATION (NOT AVAILABLE ON APPROVED VERSIONS)

The **Highland** series of balances comes standard with **HandiCal™** internal calibration to make calibrating the balance quick and easy. However you can also calibrate the balance using an external verification weight if needed. The **HandiCal** method is the default but if you would like to use external calibration then you must first enable this via the parameter (section 6.5 *Selecting The Internal Or External Calibration*).

Install the handle for the calibration as shown below. To calibrate the handle is pushed to the side to lower the calibration mass.



Internal Calibration using HandiCal

- 1) Press the **[on/off]** key to turn the power on.
- 2) Press the **[Smpl]** and **[Print]** keys at the same time during the self-checking test.
- 3) The display will show unload. Remove any weight from the stainless steel pan.
- 4) When the stable indicator shows press the **[->0/T<-]** key.
- 5) The display shows C Int. Press the **[->0/T<-]** key
- 6) The display shows LOAd. Lower the internal calibration mass located behind the pan. Use the handle to help lower the weight as far as it will go. Press the **[->0/T<-]** key once the stable sign is shown.
- 7) The display will show PASS. Rotate the weight back to its off position. Once removed the balance will return to zero.

External Calibration

- 1) Press the **[on/off]** key to turn the power on.
- 2) Press the **[Smpl]** and **[Print]** keys at the same time during the self-checking test.
- 3) The display will show unload. Remove any weight from the stainless steel pan.
- 4) When the stable indicator shows press the **[->0/T<-]** key.
- 5) The display will show the first weight that you can use to calibrate the unit. You can change this value by pressing the **[Mode]** key. The weights that can be used are as follows:

Model #	HCB 123	HCB 153	HCB 302	HCB 602	HCB 602H
Weight 1	60g	50g	100g	200g	200g
Weight 2	120g	100g	200g	400g	400g
Weight 3	-	150g	300g	600g	600g

Model #	HCB 1002	HCB 1502	HCB 2202	HCB 3001	HCB 6001
Weight 1	500g	500g	1000g	1000g	2000g
Weight 2	1000g	1000g	2000g	2000g	4000g
Weight 3	-	1500g	-	3000g	6000g


- 1) Once the calibration weight has been selected press the **[->0/T<-]** key
- 2) The display shows LoAd. Place your weight on the pan. Press **[->0/T<-]** key once the stable sign is shown.
- 3) The display will show PASS. Remove the weight from the pan.

NOTE: If the calibration fails retry. The balance will show FAIL H (when the weight is higher) or FAIL L (when the weight is lower). Repeat the process using the correct calibration weight.

8.0 TROUBLE SHOOTING

8.1 ERROR MESSAGES

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

ERROR CODE	DESCRIPTION	POSSIBLE CAUSES	SOLUTIONS
Err 4	Initial Zero is greater than allowed (4% of maximum capacity <u>(+/-2% for approved units)</u>) when power is turned on or when the [->0/T<-] key is pressed.	Weight on the pan when turning on. Excessive weight on the pan when zeroing the balance. Improper calibration of the balance. Damaged load cell. Damaged Electronics.	Remove the transit screw make sure the pan is fitted correctly. Make sure the calibration weight is in its off position. Remove any weight from the stainless steel pan. Try recalibrating.
Err 5	Keyboard Error.	Improper operation of the balance.	Turn the balance off and back on again.
Err 6	A/D count is not correct when turning the scale on.	Load cell damaged. Electronics damaged.	Remove any weight from the stainless steel pan and turn the balance off and back on again. Try calibrating the balance.
Err 9	A/D count is not stable when turning the scale on.	Load cell damage. Something touching the pan. Air movement, vibration or instability.	There may be movement, vibration or dirt on scale during turning on. Make sure there is nothing touching the pan. Make sure the internal weight is in the off position. Make sure the balance is level. Try recalibrating.
	Low Battery indicator.	Internal battery may be flat.	Charge the battery or replace internal rechargeable battery.
	Unstable – balance cannot get a stable reading.	Possible damage to the mechanics / Loadcell.	Make sure the balance is on a flat surface and away from vibration. Make sure the calibration weight is in its off position.
Red Light on front panel	Low Battery indicator.	Internal battery may be flat.	Charge the battery or replace internal rechargeable battery.
	No Power when turning on.	Internal battery may be flat.	Charge the battery or replace internal rechargeable battery.

8.2 REPLACEMENT PARTS AND ACCESSORIES

If you need to order any spare parts and accessories, contact your supplier or Adam Equipment. A partial list of the more common items follows:

Part Number	Description
3.07.4.0.10266	RS-232 interface cable
3.07.4.0.10267	USB interface cable
7.00.1.0.0046	Security lock and cable
3.08.1.0.2043	Hard Carry case
7.00.0.0.0012	Thermal Printer
6.00.0.0.2028	AdamDU (Data Collection Software)
3.08.2.3.2030	In-use wet cover
3.02.4.0.9160	DC adapter USA plug 12VDC 800mA
3.02.4.0.9156	DC adapter UK plug 12VDC 800mA
3.02.4.0.9157	DC adapter Euro plug 12VDC 800mA
3.02.4.0.9158	DC adapter SA plug 12VDC 800mA
3.02.4.0.9159	DC adapter Australian plug 12VDC 800mA
3.08.1.2.2009	Stainless steel pan, 120mm
3.08.2.3.2008	Sub Pan 120mm
3.08.2.3.2024	Draft shield (includes lid)
3.08.1.2.2044	HandiCal™ calibration handle
3.09.4.0.9012	Battery, 6V/1.3ah Rechargeable Sealed Lead Acid type.

Note: The internal rechargeable battery pack can be changed, but please first ask for technical support from your dealer or the manufacturer. Replacement batteries should match the type fitted by the manufacturer.

Please dispose of and recycle used batteries carefully and according to local laws and regulations. Do not crush, incinerate or place in normal waste.

9.0 SPECIFICATIONS

9.1 TECHNICAL SPECIFICATIONS

Standard models:

	HCB 123	HCB 153	HCB 302	HCB 602	HCB 602H
Maximum Capacity	120 g	150 g	300 g	600 g	600 g
Readability	0.001 g	0.005 g	0.01 g	0.02 g	0.01 g
Repeatability (s.d.) ±	0.002 g	0.005 g	0.01 g	0.02 g	0.01 g
Linearity (s.d.) ±	0.003 g	0.01 g	0.02 g	0.04 g	0.03 g
Pan	120mm / 4.7" ø				
Draft shield	Included as standard				
Units of Measure	g / ct / Lb / oZ / d / GN / oZt / dWt / MM / TL.H / TL.C / TL.t / t / N /g2. / TL.J Lb. are not available on HCB123 Model				

	HCB 1002	HCB 1502	HCB 2202	HCB 3001	HCB 6001
Maximum Capacity	1000 g	1500 g	2200 g	3000 g	6000g
Readability	0.01 g	0.05 g	0.01 g	0.1 g	0.1 g
Repeatability (s.d.) ±	0.01 g	0.05 g	0.02 g	0.1 g	0.2 g
Linearity (s.d.) ±	0.02 g	0.1 g	0.03 g	0.2 g	0.3 g
Pan (Stainless steel)	120mm / 4.7" ø				145mm/ 5.7" ø
Draft shield	Included as standard				
Units of Measure	g / ct / Lb / oZ / d / GN / oZt / dWt / MM / TL.H / TL.C / TL.t / t / N /g2. / TL.J				

Approved models (EU): EN45501:2015 OIML R76:2006 (E)

	HCB 602M	HCB 1002M	HCB 2001M	HCB 3001M	HCB 5001M
Capacity	600g	1000g	2000g	3000g	5000g
Readability (d)*	0.01g	0.01g	0.2g	0.5g	0.1g
Readability (e)	0.1g	0.1g	0.2g	0.5g	1.0g
OIML Class	II	II	II	II	II
Repeatability *	0.02g Std Dev	0.02g Std Dev	0.2g Std Dev	0.5g Std Dev	0.2g Std Dev
Linearity (±) *	0.03g				
Max ECL error *	0.03g				
Tare Range	Full capacity Tare Range*				

9.2 COMMON SPECIFICATIONS

Interface	USB and RS-232, bi-directional
Stabilization Time	3 Seconds typical
Operating Environment (M)	15° C to 35° C / 59° F to 95° F, Humidity: 10%~80%
Power supply (external)	12VDC 800 mA (South Africa), 150mA (Rest of World)
Calibration	HandiCal Internal calibration or external calibration - User selectable
Display	18mm high 6 digits LCD With auto backlight and loading bar graph
Scale Housing	ABS Plastic with Stainless Steel Pan
Overall Dimensions (wxdxh)	170 x 245 x 80mm / 6.7" x 9.6" X 3.1"
Net Weight	1.5 kg / 3.3 lb

9.3 RS-232 / USB SPECIFICATIONS

Either the RS-232 or USB interface can be used at one time. To avoid confusion when sending commands do not use both interfaces at the same time. See parameters *6.3 Setting The Printing Parameters / Accumulation* section for full information on settings

The standard Interface parameters are:

RS-232 output of weighing data ASCII code 4800 Baud 8 data bits No Parity

Connection details are:

RS-232 Connector: 9 pin d-subminiature socket Pin 3 Output Pin 2 Input Pin 5 Signal Ground

Generally a Null modem cable is required for connection to a computer or printers.

USB Connection is using a standard USB connector. Software for using the USB interface with a PC is available from the Adam Equipment web site.

Data Format for normal weighing operations, parts counting or recalling of totals from memory will all be different. All lines end with a carriage return and a line feed, (0dH and 0aH in ASCII).

Format 1 Output:

The lines will include a heading for each line then the value. A typical output when weighing is shown below. 3 lines of data are printed followed by 2 blank lines.

G R O S S _ _ _ 1 2 3 . 4 5 _ g _ <cr> <lf>	19 ASCII Characters, GROSS for Gross Weight, NET for Net Weight
N o . _ _ _ _ _ _ _ _ 0 1 <cr> <lf>	16 ASCII Characters, Increments every time a weight is stored in memory
T o t a l _ _ _ 1 2 3 . 4 5 _ g _ <cr> <lf>	19 Characters, The total weight stored in memory
<cr> <lf>	Includes 2 blank lines
<cr> <lf>	

When the scale is at zero the weight is not printed, only the number of items and total are printed.

If the scale is set for continuous output (not approved models) the weight only is printed followed by 2 blank lines. An example of continuous output is shown below.

G R O S S , N E T ± _ _ _ _ _ 1 2 3 . 4 5 _ g _ <cr> <lf>	Includes 2 blank lines
<cr> <lf>	
<cr> <lf>	
22 Characters, ST for stable/US for unstable followed by GROSS for Gross Weight/ NET for Net Weight and then a minus sign for negative weight, or a space for positive weight.	

Format 2 Output:

The output will be the same value as is on the display. If parts counting, it will be the count, if weighing it is only the weight.

An example output is :

± _ _ _ _ _ 1 2 3 . 4 5 _ g _ <cr> <lf>
Parts Counting example:
± _ _ _ _ _ 1 2 5 P C S <cr> <lf>
16 Characters, Begins with the sign, a minus sign for negative weight, or a space for positive weight.

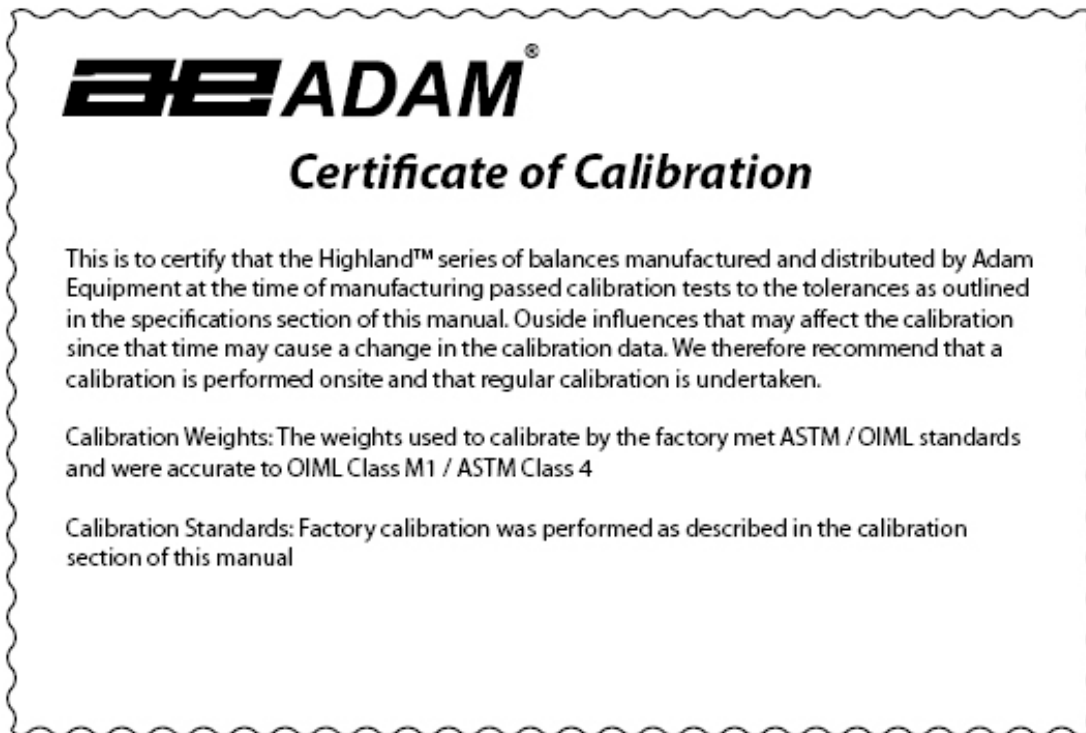
For all examples if the weighing unit is one letter (i.e. grams=g) the 2nd of the units positions is used with a space before and after. If it is 2 letters long, the 1st and second position is used with a space after the second letter, (i.e. 0.12345lb__) or if it is 3 letters long all 3 positions are used, (i.e 123.45dwt).

Input command 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 [->0/T<-] key.
Z<cr><lf>	Sets the zero point for all subsequent weighing. Display shows zero.
T5.345<cr><lf>	Would be same as entering a preset tare value of 5.345 from keypad
P<cr><lf>	Prints the results to a PC or printer using the optional RS-232 interface. It also adds the value to the accumulation memory if the accumulation function is not set to automatic.

10.0 CALIBRATION CERTIFICATE



(Applies to non-approved models only. Approved models are calibrated according to standards required by the legislation which applies)

11.0 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 of Adam Equipment.

The statutory right of the purchaser is not affected by this warranty. The terms of this warranty are 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.

WEEE 2012/19/EU



(SLA Battery containing Pb is optional extra and not fitted as standard to all models).

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

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

Dieses Gerät nicht mit dem Hausmüll entsorgt.

Dispositivo no puede ser desechado junto con los residuos domésticos

Dispositivo non può essere smaltito nei rifiuti domestici.

FCC / IC CLASS A DIGITAL DEVICE EMC VERIFICATION STATEMENT

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

CALIFORNIA PROPOSITION 65 - MANDATORY STATEMENT

(SLA Battery containing Pb is optional extra and not fitted as standard.)

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



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

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

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

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

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