



Digital Counting Scale AW-CS series USER MANUAL

PLEASE TAKE THE TIME TO READ THESE INSTRUCTIONS BEFORE
STARTING TO USE THE SCALES

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INTRODUCTION

Thank you for purchasing a Yamato Digital Counting Scale. Please read this instruction manual carefully before use. Keep these instructions handy for future reference.

SAFETY INSTRUCTION



Before putting the device into use, please read with care the information given in the Operating Instructions. They contain important instructions for installation, proper use and maintenance of the device.

The manufacturer shall not be liable for damages arising out of failure to heed the following instructions:

- ◆ When using electrical components under increased safety requirements, always comply with the appropriate regulations.
- ◆ Improper installation will render the warranty null and void.
- ◆ Ensure the voltage marked on the power supply unit matches your mains power supply.
- ◆ This device is designed for use indoors.
- ◆ Observe the permissible ambient temperatures for use
- ◆ The device meets the requirements for electromagnetic compatibility. Do not exceed the maximum values specified in the applicable standards.
- ◆ These batteries should be kept away from small children. If swallowed, promptly seek medical assistance.
- ◆ Expected Service Life: 5 years

If you have any problem, contact your local service partner.

UNPACKING

Before beginning installation of your AW-CS Series Digital Counting Scale, make certain the scale has been received in good condition. Carefully remove the scale from the shipping carton and inspect it for any evidence of damage (such as exterior dents or scratches) that may have taken place during shipment. Keep the carton and packing material for return shipment if it should become necessary. It is the responsibility of the purchaser to file all claims for any damages or loss incurred during transit.

CLEANING

- ◆ We would recommend using alcohol based wipes or similar when cleaning the scales.
- ◆ Please do not use large amounts of water when cleaning the scales as this will cause damage to the scales electronics, you should also refrain from using corrosive liquids or high pressure washers.
- ◆ Always disconnect the scales from the mains power supply before cleaning.

DISPOSING OF THE SCALE

- ◆ This product is not to be treated as regular household waste, but should be handed in to an electrical/electronic equipment recycling centre.
- ◆ You can obtain further details from your local council, your municipal waste disposal company or the firm which you purchased the product


MAINTENANCE


The scale does not require any routine maintenance. However, we recommend checking the scale's accuracy at regular intervals. The regularity of these checks is dependent on the level of use and the state of the scale. If any inaccuracies occur, please contact your local dealer or service partner

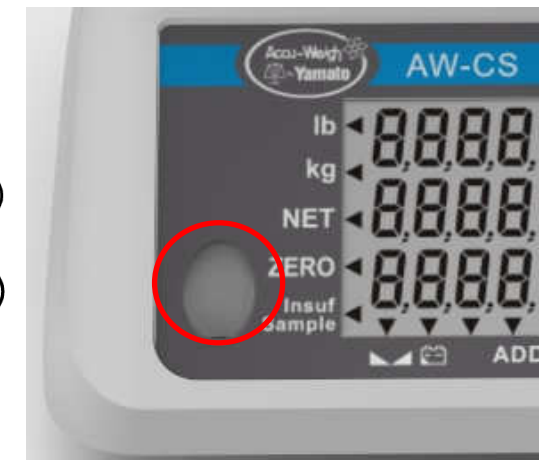
LEVEL ADJUSTMENT

Check to make certain the scale is level.

The level indicator is located at the front of the scale. If the scale is not level (the bubble will not be centered), loosen the locking ring on all four (4) mounting feet and adjust them as required to center the bubble and attain a level scale. Once a level condition has been obtained, lock the mounting feet in place by tightening the adjustment locking rings against the bottom of the scale.

Bubble indicator: Good 

Wrong 



Explanation of the graphic symbols

SN-21300100

Designation of the serial number of every device, applied at the device.

(Number as an example)

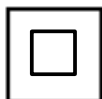
“Please note the accompanying documents“
or “Observe operating instructions”



“Electro-medical appliance“
with attachment for type B



Device protection category II



Dispose of old appliances separately from
your household waste!



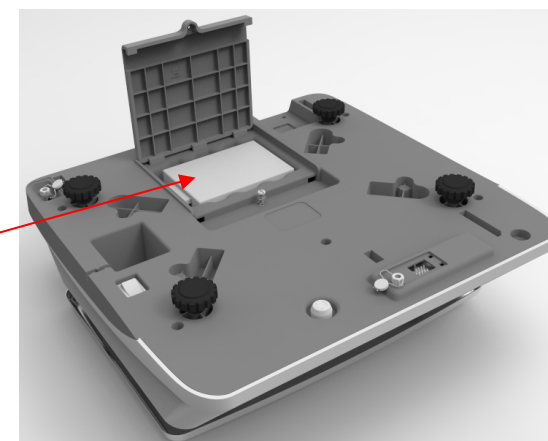
Instead, take them to communal collection
points.

Carefully read this operation manual
before setup and commissioning, even if
you are already familiar with Yamato
scales.




RECHARGEABLE LEAD-ACID BATTERY

Built-in rechargeable
6v/4Ah battery




1. Battery Charging

The scale can charge the battery (lead-acid rechargeable battery, 6v/4Ah). Just connect the scale to the external power supply to charge it. The battery will be charged regardless if the scale is on or off. It takes approximately 12 hours to charge the battery to full capacity depending on the voltage of the battery. If the battery has been-discharged, a prolonged charging time is required to bring the battery back to full capacity.

-  Red light: The battery is charging.
Green light: The battery is fully charged.

2. Low Battery

When the battery voltage falls below 5.7v, the low battery annunciator  will be turned on.

The battery must be recharged. Continued use (approximately 15 minutes later), the display will show **Lo bAt** in the weight field. If the battery voltage drops too low for accurate weighing, the scale will automatically shut off and you will be unable to turn it back on. When the low battery indicator is displayed, the operator should plug the power supply into the scale and then into the proper electrical wall outlet. The scale will begin charging the battery.

Notice

The battery should be recharged at least every 5 months regardless if it is used or not.

After a long time storage, e.g. over 3 months, it is desired to cycle (charge/discharge) the battery 3 times to let it restore to full capacity.

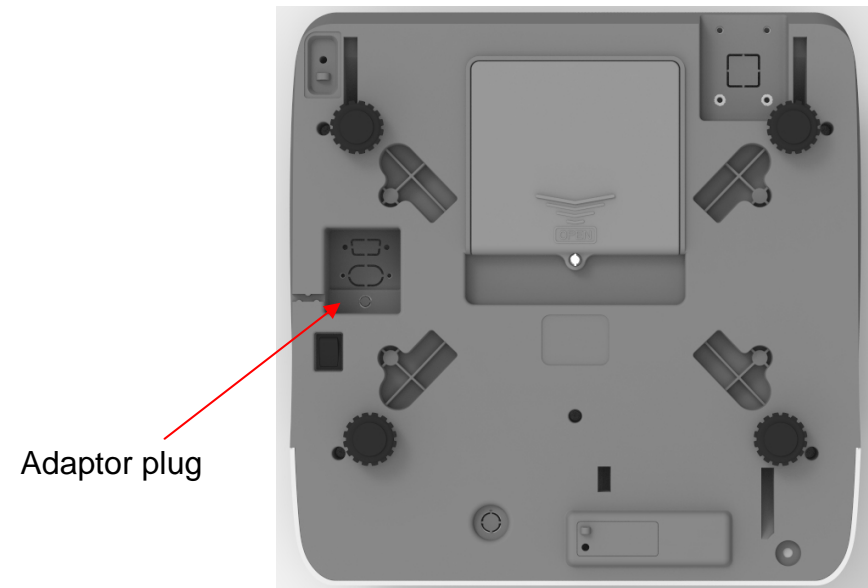
When replacing the battery, pay much attention to the poles. The positive (+) terminal must be connected to the red connector and the negative (-) terminal must be connected to the black connector. If connected wrongly, the battery will be damaged.

NOTE: The battery cover can be removed by loosening a single captive screw. This screw remains attached to the cover which prevents it from falling out of the cover or being dropped and lost.

The capacity of the batteries will reduce over the years and therefore also the total operation time of the scale. This is not an error of the scale, but it is normal behavior of rechargeable batteries.

POWER SUPPLY

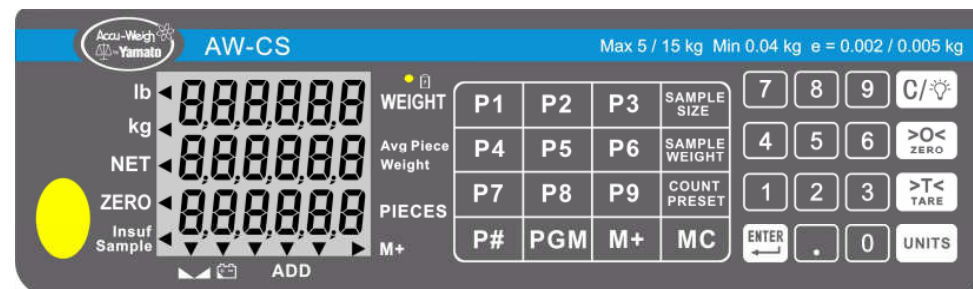
Make sure the battery pack is installed in the battery box of indicator, or, plug the connector of 12VDC /110~240 VAC 50/60Hz AC adapter in the scale.



SPECIFICATIONS

MODEL#	AW-CS3	AW-CS6	AW-CS15	AW-CS30
Capacity	3kg x 0.2g	6kg x 0.5g	15kg x 1g	30kg x 2g
Division	6lb x 0.0005lb	12lb x 0.001lb	30lb x 0.002lb	65lb x 0.005lb
Units of Measure	Kg, Lb			
Function keys	P1~P9, P#, PGM, M+, MC, SAMPLE SIZE, SAMPLE WEIGHT, COUNT PRESET, 0~9, “ ”, ENTER, • ZERO, TARE, UNITS, C/BLACKLIGHT,			
Stabilisation Time	1-2 seconds			
Temperature	0°C - 40°C			
Humidity	25% ~ 95% RH			
Power supply	Built-in rechargeable 6v/4Ah battery or 12VDC /110~240 VAC 50/60Hz AC adapter			
Indicator display	WEIGHT = 6 Digits Avg Piece Weight = 6 Digits PIECES = 6 Digits			
Dimensions	Scale Size: (340 mm x 340 mm x 127 mm) Platform Size: (320 mm x 230 mm)			

PANEL



LCD DISPLAY FUNCTION



1. lb

The lb annunciator is illuminated to show that the weight displayed is in pounds. The **UNITS** key may be used to select pounds as the weighing units.

2. kg

The kg annunciator is illuminated to show that the weight displayed is in kilograms. The **UNITS** key may be used to select kilogram as the weighing units.

3. NET

The NET annunciator is illuminated to show that the weight displayed is the net weight. Net weight is determined by subtracting the stored tare weight from the gross or scale weight. The tare weight, usually the weight of the container, is entered using the tare key. Note that the NET annunciator is only active when a zero tare weight or tare weight value is stored and the display is in the weight mode as shown by the illumination of the lb or kg annunciator.

4. ZERO (Center-of-Zero)

The Center-of-Zero annunciator is located on the left of the display and is illuminated to indicate that the weight is within +/- 1/4 division of the center of zero.

5. Insuf Sample

The Insuf Sample annunciator is located on the lower left of the display and is illuminated to show that the sample is too small to calculate an accurate piece weight. If the counting function is continued without increasing the sample size, the scale will still operate even though accuracy will be affected.

6. (Low Battery)

The Low Battery annunciator will illuminate to indicate that the internal battery requires charging. No change in operation will occur until just before the battery voltage drops to a level where operation is affected. At this level, the scale will automatically turn itself off.

7. M+

The M+ annunciator is located on the lower right of the display and is illuminated to show that the display is in the Accumulator mode and that the value displayed is the current contents of the accumulator. Individual counts are adjusted via the (M+) and (MC) keys or optionally, any count may be entered using the numeric keypad. Note that when both the M+ and ADD annunciators are illuminated, the current count has been added to the accumulator.

8. (Stable)

The (Stable) annunciator is located at the bottom left of the display and is illuminated when the WEIGHT display is stable.

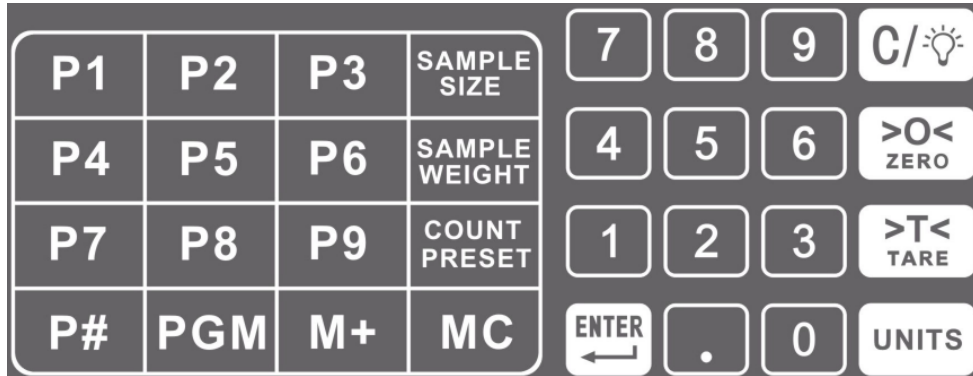
9. ADD




The ADD annunciator is located at the bottom right of the display and is illuminated when the scale is in the accumulator mode (M+).





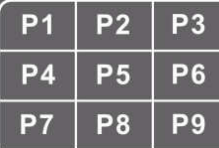
NOTE!

When the battery needs to be recharged, the CHARGING LED will turn Red. After the battery has been recharged, the CHARGING LED will turn Green.

KEY FUNCTION DESCRIPTION



Key	Description
	This key is used to weigh a known number of pieces in preparation for a new counting operation. Sample quantities are entered using the numeric keypad in any quantity desired.
	Pressing this key will display the calculated average piece weight from the current sampling and counting operation. It will also allow the manual entry of a known average piece weight (using the numeric keys) to be used in the next counting operation.
	This key is used when setting the Quantity and Weight Preset limits. During a counting operation (with the limits set) if the quantity or weight exceeds the limits, the error beeper will sound and an error message will flash on the display.


	The MC key is used to clear the accumulator. The M+ and ADD annunciators will turn off to indicate the clearing has taken place.
	Pressing the M+ key will cause the scale to display the contents of the accumulator (the number of pieces accumulated since the last time the accumulator was cleared). The M+ key is also used to add the current piece count value to the accumulator. The M+ annunciator will be selected to indicate the accumulation has taken place.
	The PGM key is used to add or edit product look up (PLU) numbers. Up to 99 PLU numbers can be programmed. Note that the first 9 PLU's are assigned to the P1-9 keys and that all PLU's can be selected using the numeric keys.
	Pressing the P# key will cause the scale to recall the average piece weight along with the saved tare weight (if a tare weight was programmed) associated with the product look up (PLU) number.
 P1 ~ P9	Pressing these keys will cause the scale to recall the average piece weight along with the saved tare weight (if a tare weight was programmed) associated with the product look up (PLU) number assigned to the key.






0 ~ 9

These keys are used to enter numeric data during normal operations as well as during calibration and operational setup.



The  key is used to perform different functions depending on the current mode of operation:

- Data Entry: The  key is used to clear an incorrect entry from the display without processing the data. If an incorrect entry is made, press the  key and re-enter the correct data.
- Pressing and holding the  key for 3 seconds will toggle the display backlight on and off.



The **ZERO** key is used to perform a variety of functions depending on the current mode of operation:
Weight Display Mode (lb or kg annunciator on):
Pressing the ZERO key will set the weight display to zero and turn on the ZERO annunciator if the displayed weight is within $\pm 4\%$ of scale capacity.



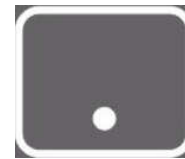
The **TARE** key is used to display the current tare weight (or zero if no tare has been entered) and/or using the numeric keypad, to enter a new tare weight. It is also used when entering a tare under a Preset number.



Pressing this key will toggle the weighing units between pounds (lb) and kilograms (kg). The currently selected weighing unit is indicated by illuminating either the lb or kg annunciator.

Metric Conversion

To change weighing units, press the **UNITS** key to toggle between pounds and kilograms. Note that either the LB or KG annunciator will illuminate to indicate which weighing unit is active.



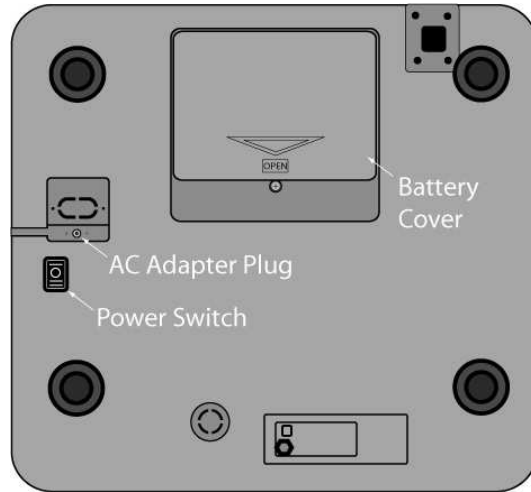
This is the decimal point key. It is used to enter a decimal point where required when entering numeric data.



The **Enter** key is used to signal completion of the entry of data and causes the scale to process the data entered.

POWER SWITCH

The Power Switch is located on the bottom left side panel towards the front of the scale. Place the power switch in the on position. The scale will perform a brief lamp test. This test consists of illuminating all display segments and annunciator LED's to allow the operator to make a visual verification that the display is operational. After completion of the lamp test, the scale will display the model number and software revision level and then the WEIGHT display will change to show zero weight, indicating the scale is ready for use.



Before using the scale, it should be “warmed up” (turned on and unloaded for approximately 15 to 20 minutes).

DISPLAYING WEIGHT

1. With the scale in the Weight mode (**0000** will be displayed for WEIGHT and **0** will be displayed for the Avg Piece Weight and PIECES displays), place the item to be weighed on the scale platform.
2. The display will show the weight on the scale platform. The lb or kg annunciators will illuminate to indicate which unit of weight has been selected and that the scale is in the Weight mode. Note that the Avg Piece Weight and PIECES display will remain at 0 (zero).

ZERO THE WEIGHT DISPLAY

1. With the scale in the Weight mode (**0** will be displayed for the Avg Piece Weight and PIECES displays), press the **ZERO** key.
2. The WEIGHT display will show) **0000** and the ZERO and Stable annunciators will illuminate, indicating a center-of-zero, stable gross weight condition.

TARE WEIGHT ENTRY

1. Push Button Tare

- 1.1 With the scale in the Weight mode, place the empty container on the scale platform.
- 1.2 Press the **TARE** key. The WEIGHT display will change to zero and the NET annunciator illuminates, indicating net weight is being displayed. The empty container's weight has been entered as "tare weight".

2. Pre-set Tare with Known Weight of Container

- 2.1 With the scale in the Weight mode, press the TARE key. The display will change to show PrEtA and the PIECES display will show ----- (six dashes).
- 2.2 Using the numeric keypad, enter the desired tare (container) weight.
- 2.3 After the desired tare value has been entered, press the **TARE** key. The display will show the Net weight (Gross minus tare) and the NET annunciator will illuminate.
- 2.4 Proceed with the counting or weighing operation.

3. Pre-set Tare with Container on Scale

- 3.1 With the scale in the Weight mode, place the container on the scale. Read the weight of the container.
- 3.2 Using the numeric keypad, enter the container weight and press the **TARE** key.
- 3.3 The display will show the Net weight (Gross minus tare) and the NET annunciator will illuminate.
- 3.4 Proceed with the counting or weighing operation.

4. To Clear the Tare

To return to a zero tare, simply remove all material from the scale platform and press the **TARE** key. This will reset the tare weight to zero.

QUANTITY PRESET HI LIMIT

The scale can store a Quantity Preset Hi Limit value. The scale will beep and the Avg Piece Weight will display a blinking *Qty* if the quantity is over the Hi limit value set.

1. Press the **COUNT PRESET** key (items can be on scale or platform can be empty).
2. The WEIGHT display will change to show *PrESEt*.
3. Using the numeric keypad, enter the Quantity Preset Hi Limit.
4. Press the **SAMPLE SIZE** key, followed by the **COUNT PRESET** key.
5. The scale will return to the Weight mode.

WEIGHT PRESET HI LIMIT

The scale can store a Weight Preset Hi Limit value. The scale will beep and the Avg Piece Weight will display a blinking *WUPSt* if the weight is over the Hi limit value set.


1. Press the **COUNT PRESET** key (items can be on scale or platform can be empty).
2. The WEIGHT display will change to show *PrESEt*.
3. Using the numeric keypad, enter the Weight Preset Hi Limit.
4. Press the **SAMPLE WEIGHT** key, followed by the **COUNT PRESET** key.
5. The scale will return to the Weight mode.

Clear the Quantity and Weight Preset Hi Limits


To clear the Quantity and/or Weight Preset Hi Limit, simply enter a "0" for the limit value.

COUNTING

1. Weight of Sample Is Unknown


- 1.1 With the scale in the Weight mode, place the sample on the scale platform.
- 1.2 On the numeric keypad, enter the number of pieces in the sample.
- 1.3 While the display is blinking, press the **SAMPLE SIZE** key.
- 1.4 The display will change to show **SRnnP** and then show the average piece weight and number of pieces.
- 1.5 Add the pieces to be counted and read the total count on the **PIECES** display.
- 1.6 Remove the pieces from the scale.
- 1.7 Press the  key to complete the counting operation and return to the Weight mode.

2. Sample Weight is known

- 2.1 With the scale in the Weight mode, using the numeric keypad, enter the piece weight of the sample.
- 2.2 Press the **SAMPLE WEIGHT** key.
- 2.3 Add the pieces to be counted and read the total count on the **PIECES** display.
- 2.4 Remove the pieces from the scale.
- 2.5 Press the  key to complete the counting operation and return to the Weight mode.

Insufficient Sample



IMPORTANT! If the sample weight is too small the **PIECES** display will show “-----” (six dashes) for a few seconds and then the Insuf Sample annunciator will illuminate. Continued use of the scale with the Insuf Sample annunciator illuminated, will result in an “inaccurate” count. Press the  key to cancel the counting operation and return to the Weight mode. Increase the number of pieces for the sample and repeat the counting operation to achieve an “accurate” count.

ACCUMULATOR

1. ADDING TO THE WEIGHT ACCUMULATOR

- 1.1 With the scale in the Weight mode and displaying zero weight, place the item on the scale platform.
- 1.2 Press the **M+** key to add to the value of the Weight Accumulator.
- 1.3 The Avg Piece Weight display will change to show the accumulator values and the ADD annunciator will be illuminated (to indicate the addition to the accumulator has taken place). After 3 seconds, the scale will return to the weight mode.
- 1.4 Remove the item from the scale.
- 1.5 The scale is ready for the next counting or weight operation.

NOTE:

Additional Weight Accumulator additions can not take place until the current weighing operation (scale weight returns to zero) has been completed.

2. DISPLAYING THE ACCUMULATOR

With the scale in the Weight mode and displaying zero weight, press the **M+** key to display the content of the accumulators. The values of the accumulator will be displayed for 3 seconds, then return to the Weight mode display.

3. CLEARING THE ACCUMULATOR

With the scale in the Weight mode and displaying zero weight, press the **MC** key. The accumulator will be reset to zero.


OPERATION USING PLU(S)

1. ADD OR EDIT PLU


- 1.1 With the scale in the Weight mode, press the **PGM** key. The Weight display will change to show **PLU**.
- 1.2 Touch the P1 through 9 key or using the numeric keys, enter the desired number of PLU 10 through 99 to change and press the **ENTER** key. The PLU number will be shown on the Weight display.
- 1.3 Using the numeric keypad to enter the average piece weight and then press the **ENTER** key to accept it. Note that if the PLU currently has an average piece weight, you can press the **ENTER** key to accept it or change it at this time.
- 1.4 The PIECES display will change to show **tARE**.
- 1.5 Press the **ENTER** key to accept it.
- 1.6 The next sequential PLU number will be displayed. Repeat steps 2 through 5 to program the remaining PLU's.
- 1.7 To exit PLU programming, simply press the PGM key and the scale will return to the normal weight mode.

2. PLU Operation Using Numeric Keypad

- 2.1 With the scale in the Weight mode, press the **P#** key. The Weight display will change to show **PLU**.
- 2.2 Enter the desired PLU number (1 through 99) and press the **ENTER** key.
- 2.3 The recalled PLU and average piece weight will display along with the associated tare weight (if a tare weight was programmed).

- 2.4 Add the pieces to be counted and read the total weight on the WEIGHT and the total count on the PIECES display.
- 2.5 Remove the pieces from the scale.
- 2.6 Press the  key to complete the counting operation and return to the Weight mode.

3. PLU Operation using Preset P1 through P9

- 3.1 With the scale in the Weight mode, press the desired **PLU** key P1 through P9.
- 3.2 The recalled PLU and average piece weight will display along with the associated tare weight (if a tare weight was programmed).
- 3.3 Add the pieces to be counted and read the total weight on the WEIGHT and the total count on the PIECES display.
- 3.4 Remove the pieces from the scale.
- 3.5 Press the  key to complete the counting operation and return to the Weight mode.

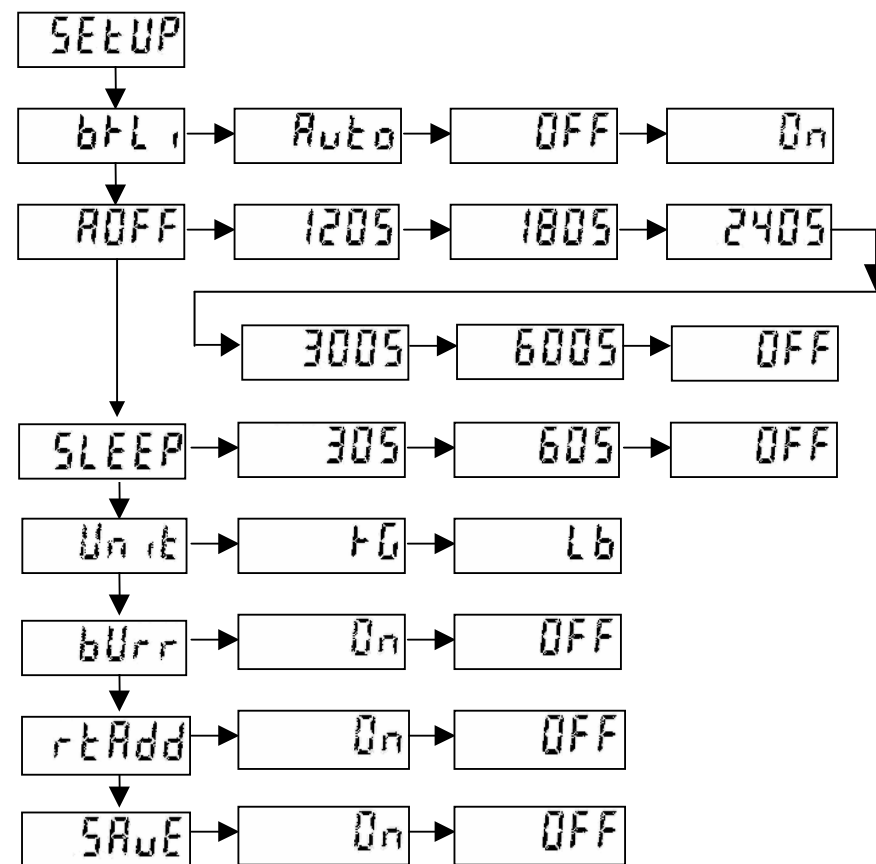
SCALE SETTINGS

1. Accessing the User Setup Mode

To access the User Setup Mode, with the scale off press and hold the **UNITS** key while switching the scale on. The Scale will display **SETUP**.

2. To Navigate in the User Setup Mode

Use the following keys to navigate the User Setup settings.



3. **btl** – Backlight Mode

With **SETUP**, **btl** displayed the current setting for the Backlight Mode parameter will be shown. If the setting displayed is acceptable, press the **UNITS** key to proceed to the next parameter.

Otherwise, use the **TARE** key to toggle between the selections and then press the **UNITS** key to save it and proceed to the next parameter. The available settings are:

Auto = **Auto Backlight** – While weighing, the backlight will be turned ON automatically when the weight is over 10 divisions or any key is pressed. The backlight will turn OFF automatically when the scale has not been used for 10 minutes.

OFF = There will be no backlight (always OFF).

On = The backlight will always be ON.

4. **ROFF** – Automatic Power-Off

With **SETUP**, **ROFF** displayed the current setting for the Automatic Shut-Off function parameter will be shown. If the setting displayed is acceptable, press the **UNITS** key to proceed to the next parameter.

Otherwise, use the **TARE** key to toggle between the selections and then press the **UNITS** key to save it and proceed to the next parameter. The available settings are:

120s = After 120 seconds (2 minutes) of no activity the scale will shut off and must be turned on using the ON/OFF switch.

180s = After 180 seconds (3 minutes) of no activity the scale will shut off and must be turned on using the ON/OFF switch.

240s = After 240 seconds (4 minutes) of no activity the scale will shut off and must be turned on using the ON/OFF switch.

300s = After 300 seconds (5 minutes) of no activity the scale will shut off and must be turned on using the ON/OFF switch.

600s = After 600 seconds (10 minutes) of no activity the scale will shut off and must be turned on using the ON/OFF switch.

OFF = The Auto Shut-Off function is disabled.

5. **SLEEP** – Sleep Mode

With **SETUP**, **SLEEP** displayed the current setting for the Sleep Mode function parameter will be shown. If the setting displayed is acceptable, press the **UNITS** key to proceed to the next parameter.

Otherwise, use the **TARE** key to toggle between the selections and then press the **UNITS** key to save it and proceed to the next parameter. The available settings are:

30s = If no activity occurs on scale for **30** seconds, the scale will enter Sleep Mode. The display will be blank except for a flashing cursor. To activate the scale, press any key or add/remove weight from scale.

60s = If no activity occurs on scale for **60** seconds, the scale will enter Sleep Mode. The display will be blank except for a flashing cursor. To activate the scale, press any key or add/remove weight from scale.

OFF = The Sleep Mode function is disabled.

6. *Unit* - Weighing Units

With *SEtUP*, *Unit* displayed the current setting for the Weighing Units parameter will be shown. If the setting displayed is acceptable, press the **UNITS** key to proceed to the next parameter.

Otherwise, use the **TARE** key to toggle between the selections and then press the **UNITS** key to save it and proceed to the next parameter. The available settings are:

KG = kg (Kilograms)

Lb = Lb (Pounds)

7. *bUrr* - Beeper

With *SEtUP*, *bUrr* displayed the current setting for the Beeper parameter will be shown.

If the setting displayed is acceptable, press the **UNITS** key to proceed to the next parameter.

Otherwise, use the **TARE** key to toggle between the selections and then press the **UNITS** key to save it and proceed to the next parameter. The available settings are:

On = Enable Beeper

OFF = Disable Beeper

8. *rEtAdd* - Return Add

With *SEtUP*, *rEtAdd* displayed the current setting for the Return Add parameter will be shown. If the setting displayed is acceptable, press the **UNITS** key to proceed to the next parameter.

Otherwise, use the **TARE** key to toggle between the selections and then press the **UNITS** key to save it and proceed to the next parameter. The available settings are:

On = The weight have to return to 0.0 then you can execute the M+

OFF = You can execute the M+ even the weight did not return to 0.0

9. *SAvE* - Save User Setup

With *SEtUP*, *SAvE* displayed the current setting for the Save Setting parameter will be shown. If the setting displayed is acceptable, press the **UNITS** key to proceed to the next parameter.

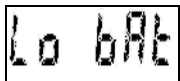
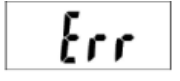



Otherwise, use the **TARE** key to toggle between the selections and then press the **UNITS** key to save it and proceed to the next parameter. The available settings are:



On = The changes are saved and the scale is ready for use with the new settings.

OFF = The changes are NOT saved and the scale will continue to operate with the *previous* settings.

The scale will reset and perform a lamp test. Next, the display will show the model number; the software revision level and then the WEIGHT display will show zero weight.

ERROR MESSAGE

ERROR MESSAGE	REASON	ACTION
	Low battery: This warning shows that the voltage of batteries is too low to use.	Please replace with new batteries or plug the AC adaptor for operation.
	Overload: The total load exceeds the maximum capacity of the scale.	Please reduce the loading and try again.
	Zero count over calibration: Zero range +10% while powered on.	Please re-calibrate the instrument. *1
	Zero count under calibration: Zero range -10% while powered on.	Please re-calibrate the instrument. *1
	Counting error (too high): Indicates that the signal from the load cells is too high.	This error is normally caused by a serious fault on the scales i.e. a faulty load cell or wiring. Please contact the local Service Representative.

	Counting error (too low): Indicates that the signal from the load cells is too low.	This error is normally caused by a serious fault on the scales such as a faulty load cell or wiring. Please contact the local Service Representative.
	EEPROM error: Indicates that there is a fault with the scales software.	This error is normally caused by a serious fault on the scales such as a faulty load cell or wiring. Please contact the local Service Representative.



ROHS COMPLIANCE

EU Directive 2011/65/EU restrict the use of the 6 substances below in the manufacture of specified types of electrical equipment.

- The product does not contain any of the restricted substances in concentrations and applications banned by the directive;
- and for components, the product is capable of being worked on at higher temperatures required by lead-free soldering.

The restricted substances and maximum allowed concentrations in the homogenous material are, by weight:

Substance	Concentration
Lead	0.1%
Mercury	0.1%
PBB (Polybrominated Biphenyls)	0.1%
PBDE (Polybrominated Diphenyl Ethers)	0.1%
Hexavalant Chromium	0.1%
Cadmium	0.01%



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