

EXCELL PRECISION CO., LTD.

Coin Counting Scale

User Manual

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Thank you for purchasing **EXCELL COIN COUNTING**

SCALE. In order to operate smoothly, to last the

durability, and to reduce the chance of breakdown

for this product, please read this Manual carefully.

INSTRUCTIONS FOR USE

- 1. Please keep the scale in a cool and dry place. Do not store at high temperatures.
- 2. Please keep the scale clean and free from insect infestation.
- 3. Avoid objects impacting with the scale.
- 4. The load placed on the weigh pan must not exceed the maximum weighing capacity of the scale.
- 5. If the scale is not going to be used for some time, please clean it and store it in a plastic bag in dry condition. A desiccant sachet may be included to prevent moisture build up.
- 6. If the scale has not been used for some time, the internal rechargeable battery should be recharged every three months before using.
- 7. Please operate or charge the scale in an open area. Do not squeeze the power cord to avoid wire on fire.
- 8. Remove the plastic drip cover from the scale for best accuracy.

PREPARING TO USE THE SCALE

- 1. Locate the scale on a firm level surface free from vibrations for accurate weight readings.
- 2. Adjust the four leveling feet to set the scale level by using the spirit level bubble located at the front of the scale.
- 3. Avoid operating the scale in direct sunlight or drafts of any kind.
- 4. If possible, avoid connecting the scale to ac power outlet sockets which are adjacent to other appliances to minimize the possibility of interference affecting the performance of the scale.
- 5. Remove any weight that may be on the platter before the scale is switched on and avoid leaving weight on the pan for long period of time.
- 6. Once the scale has been switched on, it will go through a LCD display test and then re-zero to be ready for use.
- 7. The scale requires 15~20 minutes warm up before operation to ensure best accuracy.
- Please note when symbol appears on the screen, the internal battery needs to be recharged.
- 9. All goods weighed should be placed at the centre of the weigh pan for accurate weighing. The overall dimensions of the goods being weighed should not exceed the dimension of the weigh pan.
- 10. Introduction of Storage Battery



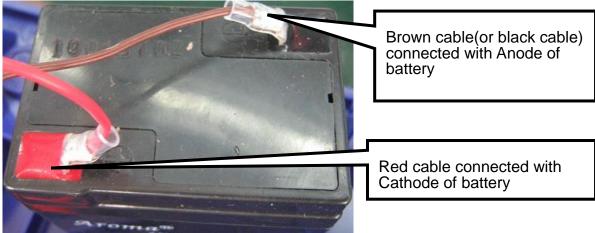
Due to the storage battery adopt the advanced free-maintaining technique, customers need not to replenish electrolyte.

The scale should be recharged every 3 months to prevent failure of the internal rechargeable battery.

- 1. The battery should be charged for 8~10 hours.
- 2. The temperature of battery should below 45° C.

Maintaining

- 1. Please do not discharge with over-current when using the battery. Please charge the battery after discharging current.
- 2. Please take down the battery when the scale is not used for a long time or break the connection of cathode.
- 3. Do not short the battery terminals to check whether there is current. Please check whether the connection point is firm to guarantee good connection.
- 4. The battery should be replaced by specialized person. No reverse-battery or the product will be damaged.
 - a) Anode of battery should be connected with Anode of product battery (usually red cable)
 - b) Cathode of battery should be connected with Cathode of product battery (usually brown cable or black cable)
 - c) See the picture following



Safety warnings

- 1. The electrolyte of battery is caustic which causes metal, cotton, etc to corrode.
- 2. The hydrogen will be resolved when using or charging the battery and it will cause explosion when approaches fire.





Children faraway

CHAPTER 1 PRODUCT INTRODUCTION

1-1 FEATURES

- 3 bright LCD display with LED backlight, clearly indicate denomination, quantity, and total
- RS-232 included, Baud rate selections: 300, 600, 1200, 2400, 4800, 9600
- 10 preset keys for denomination and unit weight of coins, tickets or tokens
- Programmable unit weight and denomination
- Up to 25 accumulations, Total value calculation
- Security password setting function
- Low battery and charging status indications
- Enclosed with adjustable feet, bubble level, dust cover, rechargeable battery and power cord

Specifications:

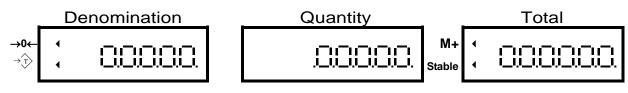
Model	Capacity	Accuracy	Resolution				
6 kg model	6 kg	1 g	1/6,000				
15 kg model	15 kg	2 g	1/7,500				
30 kg model	30 kg	5 g	1/6,000				
Pan Size (WxD)	290mm x 220mm						
Display	LCD, 5/5/6 digits, 14 mm (Height), LED backlight						
Power Supply	AC 110V/220V (±10%) or DC 6V/4 AH rechargeable battery						
Operation Temperature	0°C ~ 40°C (32°F ~ 104°F)						

Power Consumption:

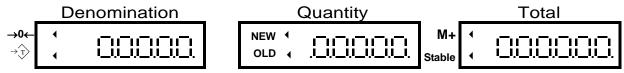
Approximately 36mA (Without backlight) Approximately 58.2mA (With backlight on)

1-2 DISPLAY

[Standard]



[South Africa models]



DIGITAL DISPLAYS

1. Denomination: (5 digits)

The value of a single coin placed on the platter.

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2. Quantity: (5 digits)

The number of coins placed on the platter.

3. Total: (6 digits)

The total value of the coins placed on the platter.

SYMBOL ICONS " 4 "

- **1.** $\rightarrow T$: "Tare" indication displayed when the container weight is deducted
- 2. ->0<-: "Zero" indication
- **3.** M+ : Memorizing indication when the M+ key is pressed.
- 4. Stable : "Stable" indication
- 5. NEW : New denomination
- 6. OLD : Old denomination

1-3 KEYBOARD FUNCTIONS

7	8	9	Total	M+
4	5	6	Print	MR
			Coin	No
1	2	3	Cal	МС
Token 0	F	CE	Z	Т

R1	7	R2 8	R5 9	Total	M+
10c	4	20c 5	50c 6	Print	MR
1c	1	2c 2	5c 3	Coin Cal	МС
Toke	n 0	New Old	CE	Z	т

▲Standard

▲South Africa models

 \sim **9** : Use for key in denomination and token of unit weight in "Coin Cal" mode.

Token : Save one token value. Token only supports one single counting function and not be able to be accumulated.

F : Enter into calibration mode.

CE : Clear

- **Z**: Zero key. The zero range will be full capacity +/- 2%.
- T : Press this key could subtract the basket weight. There will be a "◀" symbol shown at the "Denomination" display.
 - 1. If remove the object from the platter, the display show "- - " at the

"Quantity" & "Total" display. Press **T** again, it will escape tare function mode. The " [◀] " symbol will disappear.

There is a weight at the display. It couldn't allow to escape tare mode by pressing T key. Using Z key to escape tare mode.

- 3. It could tare continuously. Negative weight is not allowed to be tared.
- **M+** : Accumulation key and print one data.
- **MR** : Recall accumulation key.
- **MC** : Clear accumulated value.
- **Total** : Print key and print out all the accumulated data.

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Print : Print key and print out all accumulated data in memory.

Coin Cal : Setting mode in denomination & token of unit weight.

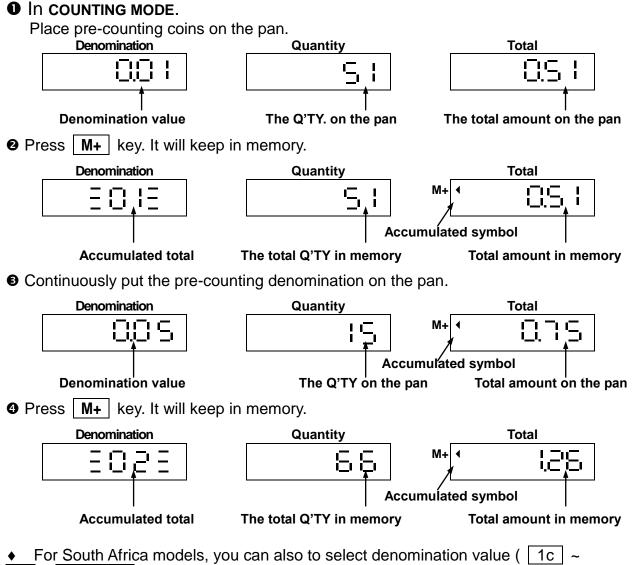
Special Keys for South Africa models :

- **1c** ~ **R5** : Use for nine different kinds of denomination.
- **New/Old** : Press this key to shift "New" and "Old" token with the same denominations.

The " ◀ " symbol shows "New" or "Old" at the "Quantity" window. Enter into calibration mode.

CHAPTER 2 OPERATION

2-1 ACCUMULATION FUNCTION



R5 , New/Old).

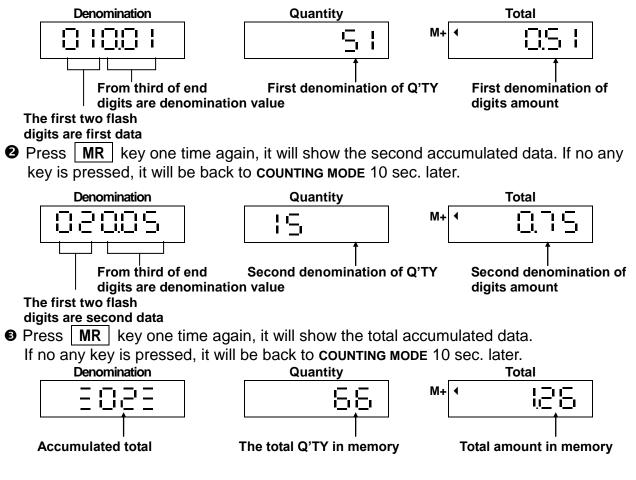


2-2 RECALL ACCUMULATION

There are accumulation data in memory (it will have accumulated symbol at the "Total" display.) Press **MR** key, it will display "Accumulated data" and "Total accumulated data" in sequence.

• Press MR key one time, it will show the first accumulated data.

If no any key is pressed, it will be back to counting mode 10 sec. later.



2-3 CLEAR ACCUMULATED VALUE

• There are accumulation data in memory and also have accumulated symbol at the "Total" display.

Press **MC** key, could clear all accumulated data in memory. And also accumulated symbol will disappear at "Total" display.

- In ACCUMULATED RECALL MODE, the recall data could be deleted from memory by pressing MC key.
- ❸ In ACCUMULATED RECALL MODE,

the recall total data could be deleted from memory by pressing **MC** key. And the accumulated symbol will disappear at "Total display.

2-4 PRINT FUNCTION

• In the **COUNTING MODE**, it will be in memory by pressing **M+** key. Then, it will print it out automatically. The print format as below:

	Record		1		
	Denomination		0.01		
	Quantity		51		
	Amount	\$	0.51		
O There are accur	nulated data in memory	. Then, i	t could print i	t out by pressing	Total
key. The print fo	-		•		
<i>y</i> 1	Record		2		
	Quantity		66		
	Amount	\$	1.26		
There are accum	nulated data in memory	-	t could print i	t out by pressing	PRINT
key. The print fo	•	- ,			
	Record		1		
	Denomination		0.01		
	Quantity		51		
	Amount	\$	0.51		
	Record		2		
	Denomination		0.05		
	Quantity	•	15		
	Amount	\$	0.75		
	Total				
	Quantity		66		
	Total	•			
	Amount	\$	1.26		

2-5 THE SETTING MODE IN DENOMINATION & TOKEN OF UNIT WEIGHT

• Press Coin Cal key, the display will show as below:

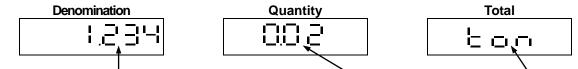
Remark: If no any key is pressed, it will be back to counting mode 10 sec. later.

Denomination	Quantity	Total
80085	8	

Input 4 digits secret numbers, the display will show as below:
 Remark: If no any key is pressed, it will be back to counting mode 5 sec. later.

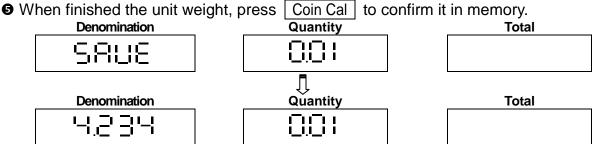
_	Denomination	Quantity	_	Total
	80085	8888		
Ĺ				

Press <u>Coin Cal</u> key, it will enter to the setting mode. If the password is wrong, the scale will auto back to COUNTING MODE.



The denom. 0.02 of unit weight (Prior setting value) The value of denom. Token symbol 0 To select the denomination or token value as desire to change of unit weight.($\boxed{1}$ ~

EXCELL PRECISION CO., LTD 9, Token) Press Coin Cal key, the display will be flashed. Use digits 0 ~ 9 to input new weight. The unit weight fixed by three decimal points. Press CE to amend it. Denomination Quantity Total I



To select a new denomination or token value as desire to change of unit weight.
 Press Coin Cal key to confirm it in memory.

Redo the above procedure to set all the denomination & token of unit weight. Then finished all denominations setting, press T will be back to zero. All keys will be in vain. To print all denominations of unit weight by pressing PRINT key. The scale will be return to **NORMAL COUNTING MODE**.

2-6 THE SETTING OF BACKLIGHT

<method 1=""></method>
Press Z key, the display will show " ", then press 4 key right
away. It is "auto-backlight mode".
Press Z key, the display will show " ⁻ - ⁻ - ⁻ ⁻ ", then press 5 key right
away. It is "backlight-off mode".
<method 2=""></method>

Hold 0 key for 2 seconds, the beeper will beep ...three times. Backlight mode

switches between "Auto-backlight mode" and "backlight-off mode".

The last used backlight setting will be used when scale switched on.

Auto-backlight mode

When weight is over 10d or while any key is pressed, the backlight is turned on. After return to zero (the weight < 10d) for 10 seconds, backlight will be turn off.

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CHAPTER 3 ERROR MESSAGE

AD value	0	75	5,000 350	,000		900,000
	•					
		E7	Turning on zero		E6	
			(Regular)			I

If the internal value is not within 75,000~350,000 before linearity or weight calibration, adjust the resistance value of R1 and R2, or replace the load cell.

- E1 \Rightarrow zero is higher than the modified zero + 10% TOTAL SPAN
- E2 \Rightarrow zero is lower than the modified zero + 10% TOTAL SPAN
- E6 \Rightarrow Unmodified zero is higher than 350,000
- E7 \Rightarrow Unmodified zero is lower than 75,000
- -OL- \Rightarrow The weight is over the capacity + 9d

APPENDIX SEVEN-SEGMENT DISPLAY CHARACTERS

0	1	2	3	4	5	6	7	8	9
								В	
А	В	С	D	Е	F	G	H	I	J
K	L	М	Ν	0	Р	Q	R	S	Т
U	V	W	Х	Y	Z				

EXCELL® EXCELL PRECISION CO., LTD

LIMITED WARRANTY

- A. The customer enjoys services free of charge provided by our company (or distributors) under the conditions as follows:
- (1) The scale is operated normally
- (2) The purchasing date is within one year which is our preferential service period
- B. We have to charge you for the cost of materials or for the repairs according to the circumstances even if when in our preferential service period which needs your understanding as follows:
- (1) The scale does not work because of use in improper ways
- (2) The scale does not work because of taking apart for overhaul or the re-equipping voluntarily
- (3) The scale causes damage when repaired by unauthorized personnel of the company
- (4) The damage of the scale is caused by natural disasters
- (5) The damage of the scale is caused by environment, for example insect or humidity