

Price Computing Scale

User Manual

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Thank you for purchasing EXCELL Price Computing Scale. In order to operate smoothly, to last the durability and to reduce chance of breakdown for this product, please read this manual carefully.

Instructions for Use

1. Please cover the scale with dustproof cover when not in use to prevent possible damage from dust and static electricity.
2. Washing with rain or water is prohibited. (If gets wet accidentally, please wipe it dry with cloth. When the scale does not work properly, please return it to our distributor for service.)
3. Please keep the scale in a cool and dry place. Do not store at high temperature or damp places.
4. Please keep the scale clean and away from insects entering the scale.
5. Avoid heavy impact or overloading. (When over its maximum capacity, it might damage the scale)
6. When the scale is not in use for some time, please clean and wrap the scale well. Recommend to store with desiccators and to recharge battery every 3 months or before use.
7. For an accurate reading, please place objects near the center of the platter and within the platter.
8. Please operate or charge the scale in an open area. Do not squeeze the power cord to avoid wire on fire.
9. Operating temperature: $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$
10. Any suggestion for product is warmly welcome.

Preparing to Use the Scale

1. Please locate the precision scale on a stable, flat desk and don't put it on a shaking or unstable desk. Adjust the four leveling feet to make the scale horizontal. Make sure that the bubble level is in the center of the circle.
2. Keep the scale away from places with strong drafts or excessive temperature fluctuations (E.g. from direct sunlight or the air louver of an air conditioner).
3. Please use an independent power outlet to avoid interruption by other electrical appliances.
4. Don't put any object on the scale while switching on the scale.
5. Please keep the scale switched on for 15 ~ 20 minutes before operation.
6. When the low battery indicator  appears in the right corner of the display, replace the dry batteries or charge the battery.
7. Introduction of Storage Battery:

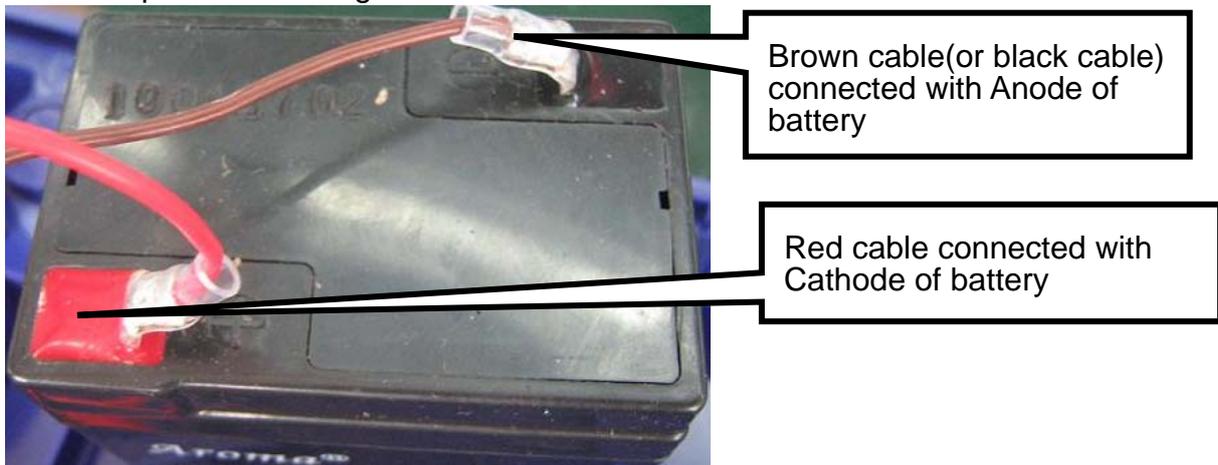
Due to the storage battery adopt the advanced free-maintaining technique, customers need not to replenish electrolyte.

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.



No burning



Caution Corrosion

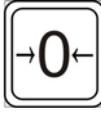
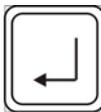


Warning explosion



Children faraway

Chapter 1 Keypad Description

 ~ 	Number key. Press the keys to input the numbers (0 ~ 9).
	Press the key once to enter a double zero "00"
	Clear Key. Press the key to clear the unit price.
 or 	Clear Key. Press the key to clear the last digit of unit price.
 or 	Zero key. Press the key to rezero the scale, and the zero range is ± 2 % of full capacity.
 or 	<p>Tare key.</p> <p>Press the key once to deduct the container weight. And the tare indication "◀" is displayed in the WEIGHT. When the objects are removed from the platter, WEIGHT will display a negative value. In the FIX mode, press the key once again to exit the Tare Function and the tare indication "◀" goes off.</p> <ul style="list-style-type: none"> ☰ If the weight value is negative and the tare is not enable then press the  key to zero the scale. ☰ Multi-tare function: A negative tare value is not allowed. The tare range could extend to 4 digits.
	Confirm key.
For 18 keys:	
	<p>Shift key. (Euro / NC).</p> <ul style="list-style-type: none"> ☰ Key in unit price in pricing mode, the TOTAL PRICE displays the Total price of them. Press this key again, the TOTAL PRICE displays the converted total price; the UNIT PRICE will display the NC (national currency) symbol.
	<p>Press the key, and press the  key to select price unit "kg".</p> <p>Press the key, and press the  key to select price unit "100g".</p> <p>The indication "◀" will be displayed on the UNIT PRICE.</p>

<div style="border: 1px solid black; padding: 5px; text-align: center; width: 50px; margin: 0 auto;">FIX</div>	<p>Shifted the FIX unit price mode (on / off).</p> <p>☰ FIX mode off ⇒ FIX indication “◀” goes off in TOTAL PRICE</p> <p>I Weight is at zero, the unit price will be automatically cleared after 3 seconds.</p> <p>II In the taring mode, after the object is removed from the platter, the tare value will be cleared automatically.</p> <p>FIX mode on ⇒ FIX indication “◀” sign is on in TOTAL PRICE</p> <p>I Weight is at zero or at any weight, press CE key to clear the unit price.</p> <p>II In the taring mode, after the object is removed from the platter, the WEIGHT will display the negative value, press ↔T key to clear the tare value.</p>
For 17 keys:	
<div style="border: 1px solid black; padding: 5px; text-align: center; width: 50px; margin: 0 auto;">UNIT</div>	Shift unit key
<div style="border: 1px solid black; padding: 5px; text-align: center; width: 50px; margin: 0 auto;">PRE PACK</div>	<p>Shifted the PREPACK mode (on / off).</p> <p>☰ PREPACK mode off ⇒ PREPACK indication “◀” goes off in TOTAL PRICE</p> <p>I Weight is at zero, the unit price will be automatically cleared after 3 seconds.</p> <p>II In the taring mode, after the object is removed from the platter, the tare value will be cleared automatically.</p> <p>PREPACK mode on ⇒ PREPACK indication “◀” sign is on in TOTAL PRICE</p> <p>I Weight is at zero or at any weight, press CE key to clear the unit price.</p> <p>II In the taring mode, after the object is removed from the platter, the WEIGHT will display the negative value, press ↔T key to clear the tare value.</p>

18keys

7	8	9		↵
4	5	6	kg 100g	NCU €
1	2	3	CE	C
0	00	FIX	→0←	↔T

17keys

7	8	9		↵
4	5	6	UNIT	
1	2	3	CE	←
0	00	PRE PACK	Z	T

Chapter 2 Backlight Setting

METHOD I

Press the  key ( for 17key model) first, and then press the  key before the " — — — — — " in the WEIGHT window disappears. Thus the "auto backlight" function is activated.

Press the  key ( for 17key model) first, and then press the  key before the " — — — — — " in the WEIGHT window disappears, Thus the "No Backlight" function is selected.

METHOD II

Hold the  key for 2 seconds, and the buzzer beeps for three times. In this way the backlight mode is shifted between "Auto Backlight" and "No Backlight".

-  The scale will memorize the current backlight mode when it is switched off, and will be the same mode when switched on in the next time.



Chapter 3 Fixed Price Unit

Setting procedures

Use the  key ( for 17key models) to select the desired price unit. Press the  key ( for 17key model) first and press the  key when the display shows " — — — — " in the WEIGHT window. The selected price unit will be shown when switching on in the next time.

 After the above setting, no matter what unit will be used in pricing or any other unit is in use before shutting down, the fixed price unit will still be shown when restarting the scale.

Cancel procedures

Press the  key ( for 17key models) first and then press the  key when the display shows " — — — — " in the WEIGHT window to cancel the previous fixed price unit.

 After canceling the fixed unit price, the scale will memorize the current price unit when it is switched off, and will be the same unit when switched on in the next time.

 To change the fixed price unit, take the next 4 steps as following.

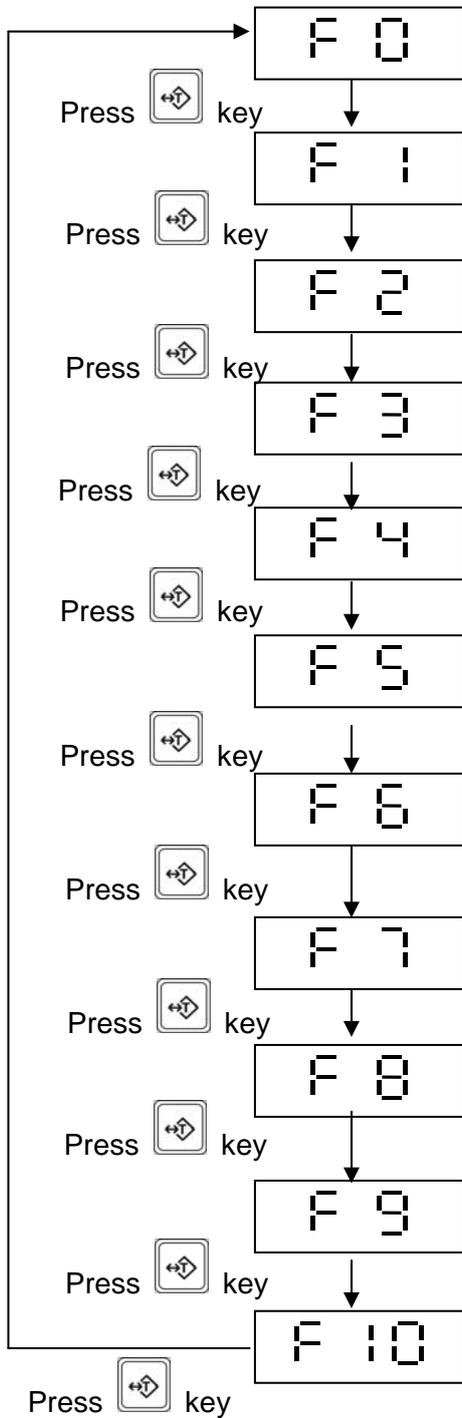
1. Enter the previous fixed price unit mode.
2. Cancel the fixed price unit.
3. Enter the new price unit.
4. Fix this price unit.



Chapter 4 Function Settings

Press and hold key until the scale enters into the function setting mode while the scale is counting down to zero.

Press key in order, the WEIGHT column will display F0 ~ F9 in sequence.



F 0	⇒	Program version No.
F 1	⇒	Reserved
F 2	⇒	Reserved
F 3	⇒	Reserved
F 4	⇒	Reserved
F 5	⇒	Reserved
F 6	⇒	Select base currency
F 7	⇒	Reserved
F 8	⇒	Reserved
F 9	⇒	G value calibration
F 10	⇒	RS-232 Transmission Setting

4-1 F0 ⇒ Program Version



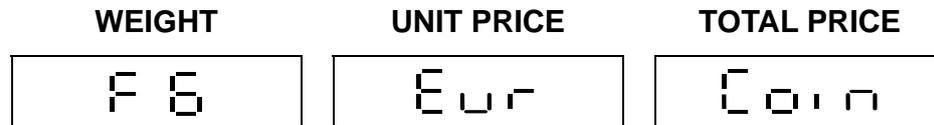
Press  key to go to the next function.

Press  key to leave function setting and return to weighing mode.

4-2 F6 ⇒ Currency Selection



Press  key



Press  key



Press  key



Press  key



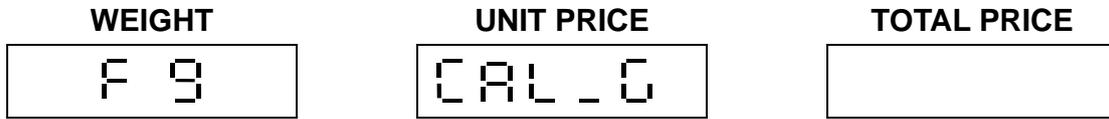
Press  key

Press the  key to confirm, the setting procedure is completed.

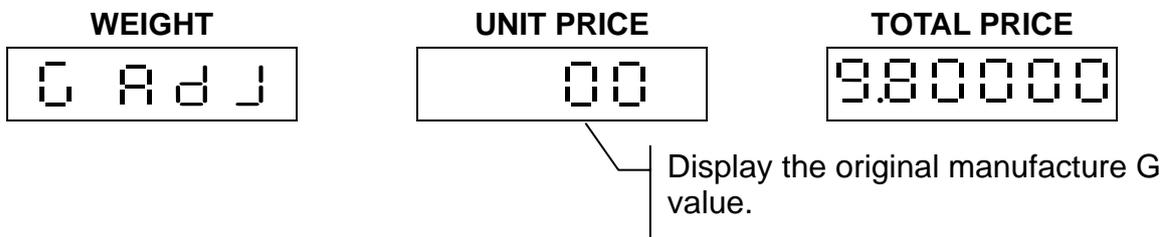
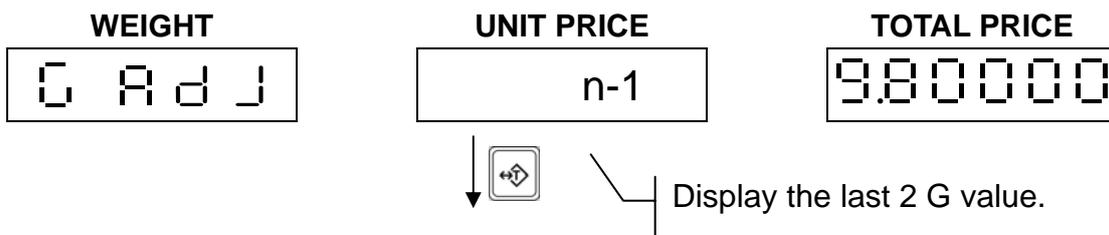
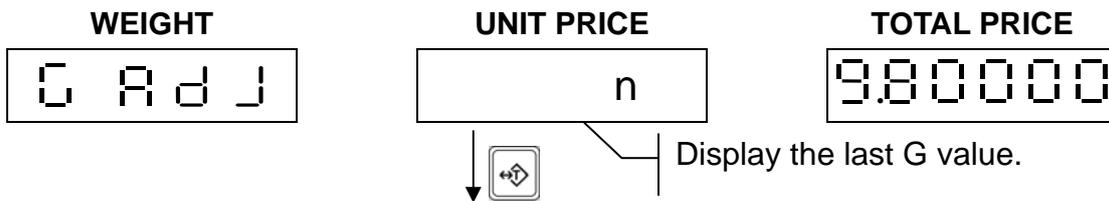
◆ To give up the setting, press the  key to exit the setting mode.

4-3 F9 ⇒ G Value Calibration

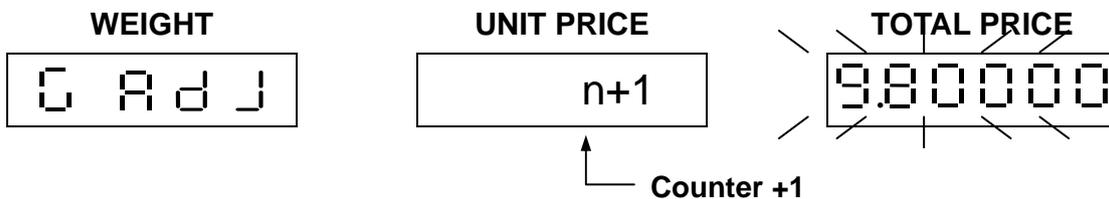
1. Please set the G value as the local one. The counter is auto-add once when the setting procedure is completed.
2. The counter is set up to the ninth times.



Press  key to enter into check historical data mode. Press  key to show the historical value in sequence.



Press  key to enter into G value setting mode. To abort the setting, press the  key to exit the setting mode.



Press  ~  to input G value.

Press the  key to confirm, the setting procedure is completed.

- ◆ To abort the setting, press the  key to exit the setting mode.
- ◆ The G value is range from 9.83217 to 9.78031

4-4 F10 ⇒ RS-232 Transmission Setting (option)

WEIGHT	UNIT PRICE	TOTAL PRICE
F 1 0	r 5 2 3 2	

Press  key

WEIGHT	UNIT PRICE	TOTAL PRICE
F 1 0	r 5 2 3 2	X

previous ↑ value

Press  key to select 1 (open) or 0 (close)

Press the  key to confirm, the setting procedure is completed.

To give up the setting, press the  to exit the setting mode.

Default transmit rate: 9600 N81

Select 1 to open RS232, then the print format is as followed:

N	10.000Kg
T	0.500Kg
U/P	50/Kg
T/P	500

Select 0 to close the RS232.

Chapter 5 Error Messages

E 1 ⇒ ZERO value is higher than +10% F.S.

E 2 ⇒ ZERO value is lower than - 10% F.S.

E 6 ⇒ ZERO value is higher than 350 000 when calibrating.

E 7 ⇒ ZERO value is lower than 80 000 when calibrating.

o L ⇒ The weight is higher than 9 division of maximum capacity

- - - - - ⇒ If the negative weight is over 20 divisions and there is no tare weight or pre-tare weight, the display shows “- - - - -”



Appendix 1 7-Segment Display Characters

Number	Display	Letter	Display	Letter	Display
0		A		N	
1		B		O	
2		C		P	
3		D		Q	
4		E		R	
5		F		S	
6		G		T	
7		H		U	
8		I		V	
9		J		W	
		K		X	
		L		Y	
		M		Z	