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EXCELL PRECISION CO., LTD.
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User Manual
Waterproof Price Computing Scale
YSP

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TABLE OF CONTENTS

INSTRUCTION FOR USE 2

1-1 FEATURE 5
1-2 SPECIFICATION 5
1-3 ERROR MESSAGES 6
1-4 SCREEN DISPLAY 6
1-5 POWER SUPPLY 7

CHAPTER 2 KEYBOARD FUNCTION 8

CHAPTER 3 OPERATION INSTRUCTION 9

3-1 INTERNAL VALUE DISPLAY MODE 9
3-2 SETTING UP BACKLIGHT MODE (OPTION) 9
3-3 SETTINGS OF PRICING UNIT 9
3-4 EXTERNAL WEIGHT FACTORY DEFAULT SETTING 10
3-5 G VALUE ADJUSTMENT 10

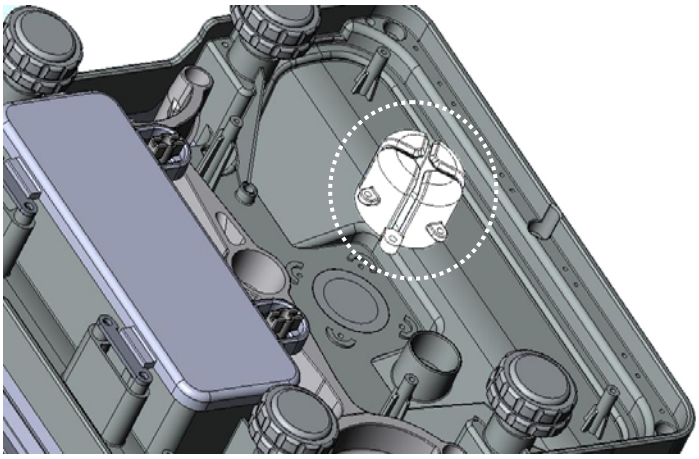
CHAPTER 4 FUNCTION SETTING 11

4-1 F3 ⇒ STABILIZATION (ONE OF JUDGEMENT CONDITIONS) ⇒ READING TIMES 13
4-2 F4 ⇒ STABILIZATION (ONE OF JUDGMENT CONDITIONS) ⇒ RANGE 13
4-3 F5 ⇒CLEAR UNIT PRICE IMMEDIATELY AFTER MC 14
4-4 F6 ⇒ SWITCHING-ON UNIT MODE SETTING 14

APPENDIX 1 7-SEGMENT DISPLAY CHARACTERS 15

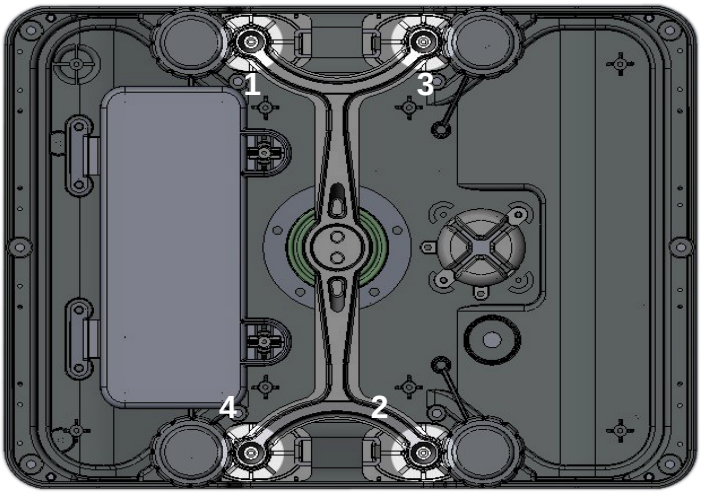
Thank you for purchasing Price Computing Scale. In order to operate smoothly, to last the durability, and to reduce the chance of breakdown for this product, please read this Manual carefully.

Instruction for Use

1. In order to prevent the scale from dust and static electricity, please fix the dustproof cover on the scale with double-sided adhesive.
2. Please keep the scale in a cool and dry place. Do not store at high temperatures or damp places.
3. Please keep the scale clean and free from insect infestation.
4. To avoid impact and it is to be used under designated pressure (the weight put on the platter can not exceed the maximum 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. The scale should be recharged every 3 months to prevent failure of the internal rechargeable battery.
6. The commodity should be placed in the center of platter for accurate weighing. The dimension of the weighted commodity should not exceed the dimension of platter.
7. 

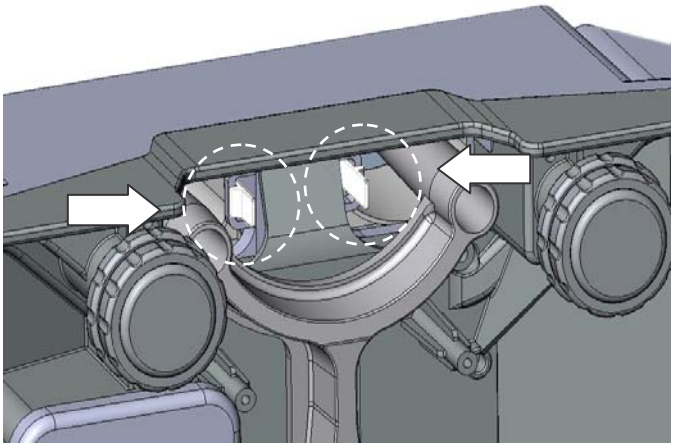
Please do not use your hand and sharp things to touch the waterproof film, in order to protect the scale.

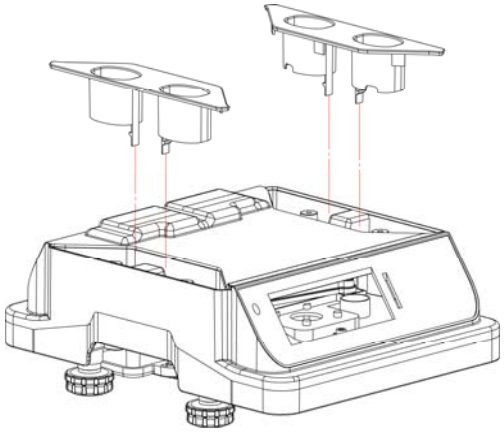
8



If you want, you can use the four screws to lock the platter so that it will be more firm. When you lock ,please follow the order “1→2→3→4”

9





Please push the clip to take off the dust cover to clean

Preparation before Using

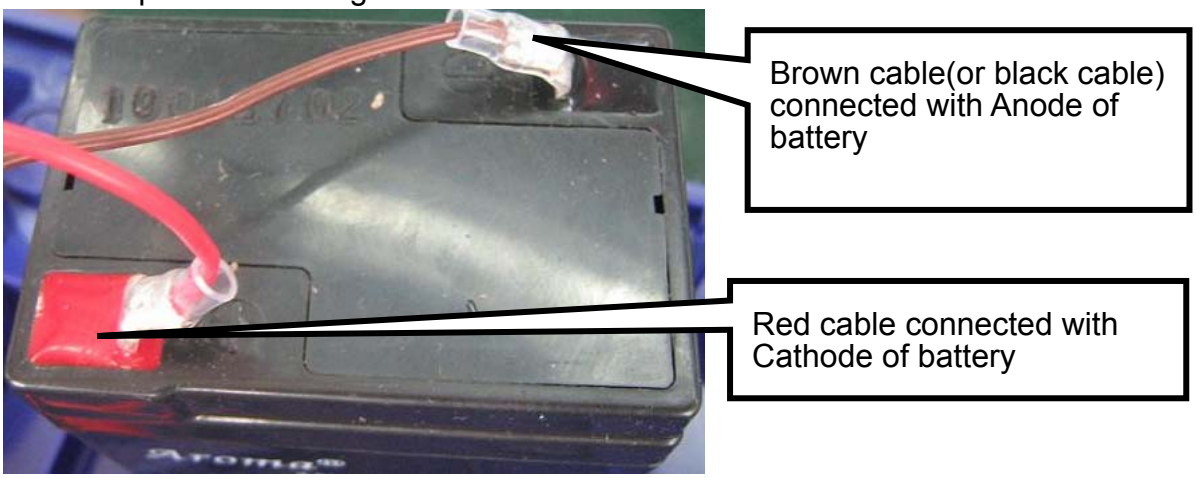
1. Put the scale on a firm level surface free for accurate weight readings. Adjust the four leveling feet to get the leveling bubble at the centre of circle.
2. Scale must be used under a stable temperature and stable air flow. Avoid direct sunlight onto the scale or near the exhaust port of ventilating system.
3. Scale must be used under individual socket to avoid the interference of other electric appliances.
4. Remove any weight that might be on the platter before the scale is switched on.
5. Please note that when or symbol appears on the screen, the scale needs to be recharged.
6. 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℃.

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.

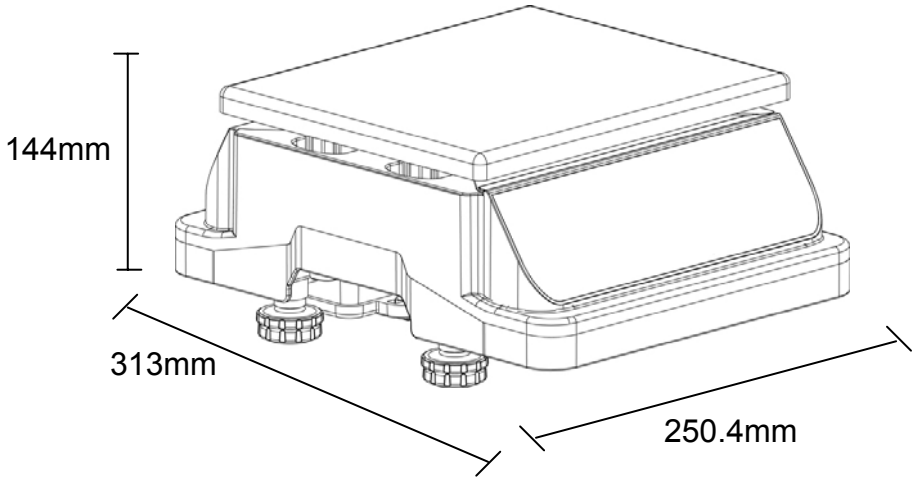
Chapter 1 Product Introduction

1-1 Feature

- Sealed waterproof silica gel strip blocks water from infiltrating into the scale.
- Surrounded by waterproof grade sheeting to ensure the water free.
- 1/3,000~1/6,000 display resolution available
- Aluminum frames coated with anti-corrosion treatment for longer lifespan
- Stainless steel made feet and platter for anti-rusted.
- LCD display with LED Backlight makes readings clear and readable at night.
- High speed of 24bits AD fast reacts and shortens the weighing operation duration.
- Selectable units: Kilogram (kg), gram (g), ounce (oz), and pound (lb) weighing units available.
- Built-in rechargeable battery can be easily replaced.
- Vertical placement design battery prevents from electrolyte leakage, and makes more safety and durable.
- Low power indication and auto power off.
- Well-designed protection point for transportation.
- Securable platter with screws at users' needs.

1-2 Specification

MODEL	CAPACITY	DIVISION (single range)	DIVISION (multi-range)
YSP-6	6kg	1g	0kg~3kg/1g
		2g	3kg~6kg/2g
YSP-15	15kg	2g	0kg~6kg/2g
		5g	6kg~15kg/5g
YSP-30	30Kg	5g	0kg~15kg/5g
		10g	15kg~30kg/10g
Operating Temperature: -10°C ~ +40°C			
Dimensions: 250.4 x 144 x 313 mm (W x H x D)			
Weight of the scale: Around 3kg			



1-3 Error Messages

OL ⇒ The weight value is over 9 division of maximum capacity.

E 1 ⇒ Zero value above 10% full scale.

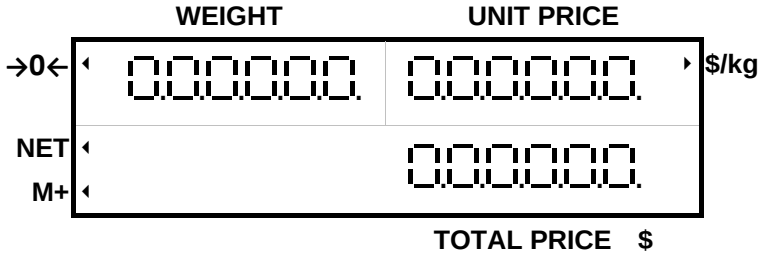
E 2 ⇒ Zero value below 10% full scale.

E 6 ⇒ The internal value is over 350,000.

E 7 ⇒ The internal value is below 80,000.

- - - - - ⇒If the negative weight is over 20 divisions and there is no T or PT, the display shows "- - - - - -"

1-4 Screen Display



Display Column

1. Weight

6 digits in total display the weight on platter.
The left digit is able to display the negative symbol.

2. Unit Price
6 digits in total display the unit price of objects on platter.
The decimal point floats two digits.

3. Total Price
6 digits in total display the total price of the objects on platter or the accumulation.

Symbol Display

1. **Z** : "Zero" indication.
2. T : "Tare" indication.
3. **M+** : "Accumulation" indication.
4. : Low battery.

1-5 Power Supply

Power Selection

1. 6 V / 4 Ah Rechargeable battery
2. 110 / 220 V ±15 % AC Main power

Recharge Voltage

1. AC 110 V +10%, -15%
2. AC 220 V +10%, -15%

Power Consumption

29mA	(system+L/C；no backlight,single display)	about 138 hours
29mA	(system+L/C；no backlight,dubble display)	about 138 hours
33mA	(system+L/C；backlight, single display)	about 121 hours
41mA	(system+L/C； backlight,dubble display)	about 90 hours

Low Power Alarm

When the ( ) symbol keeps flashing on the left down corner of the display, it need charging.

- The indicator will turn off automatically after 5 ~ 10 hours (approximately 1 ~ 2 hours with backlight on), when the low battery warning symbol shows up. The indicator must be fully charged, before operating again.
- When the low battery warning symbol shows up, please recharge the indicator immediately for fear of weight instability.

Chapter 2 Keyboard Function

0 ~ **9** : Number key. Press the keys to input the numbers (0 ~ 9) and to set unit price.

CE : Press the key to clear the old unit price and then input the new one if you would like to change the unit price (If the unit price has been input for 3 seconds, you can input the new one immediately).

T : Press the key to deduct the containers' weight and the symbol "◄" in Weight will appear.

Z : Weight return to zero

. : Press this key one time, the **DECIMAL POINT** is available. Press this key two times with number key 1, 2, 3 or 4, **PRICING UNIT** function is available.

00 : Press this key to enter "00"

Q'TY : When there is more than one piece of the same item, such as cans which are priced by quantity, input the unit price first and then press **Q'TY** to enter the number of items (input an integer no more than 999). The total amount will be shown in **TOTAL PRICE** (as same as the calculator's multiply). At that moment, please press **+** to store it in accumulation.

+ : Input unit price in the **UNIT PRICE**, then press **+** to memorize the sum.

M+ : After the number on **TOTAL PRICE** is stable, press M+ to memorize the sum.

MR : If there is accumulation data in memory, please press **MC** continually to display the last 99 data.

MC : When there is accumulation data in memory (accumulation symbol "◄" displays in **TOTAL PRICE**), press this key to clear all accumulation data, and accumulation symbol "◄" disappears.

CH : Press **CH** , then total price disappears in **TOTAL PRICE**. Please press the payment of customer, and the change displays in the **UNIT PRICE**.

20key keyboard

7	**8**	**9**	**QTY**	**M+**
4	**5**	**6**	**+**	**MR**
1	**2**	**3**	**CH**	**MC**
0	**.**	**CE**	**Z**	**T**

Chapter 3 Operation Instruction

3-1 Internal Value Display Mode

Press [Z] key, when the display show "– – – – – –" ,then, press [CE] key immediately. The display will show internal value. Press [0] to exit the internal value mode and return to the weighing mode.

3-2 Setting up Backlight Mode (option)

<Method 1>

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>

Press [0] key for 2 seconds, the beeper will beep …three times.
The scale will change to backlight mode ⇒
"Auto-backlight mode" or "backlight-off mode".

Auto-backlight mode

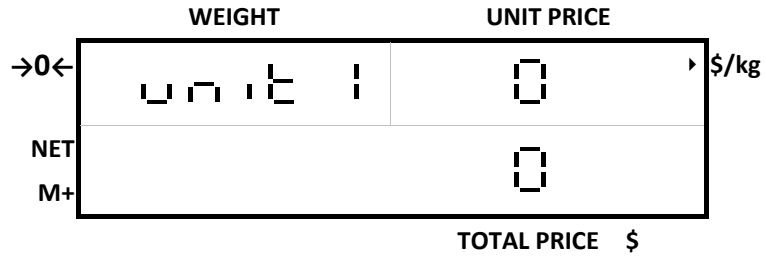
When there is a weight on the pan which weight is over 10d or pressing any keys, the backlight will be on. After back to zero for 10 desonds (the weight is under 10d,), backlight will be off

The scale will keep the auto-backlight mode after the next bootup, if the auto-backlight mode is set before last power-off.

3-3 Settings of Pricing Unit

❶ Selecting the pricing unit:

Double press [•] key, the display will show the current pricing unit:



❷ Press [1] ~ [6] to select pricing units. The scale will be back to weighing & price mode.
The display will show the symbol indication "◀" for the request pricing unit.

1 ⇒ kg 2 ⇒ 100g 3 ⇒ HK catty
4 ⇒ tl.T 5 ⇒ lb 6 ⇒ oz

If the price unit "lb" is seleteced, the displaying will show three symbols "◀" .
If the price unit "oz" is selected, the displaying will **not** show any symbol "◀" .

3-4 External Weight Factory Default Setting

To Return to the factory setting, hold [MC] key and press [CE] key.

After buzzer beep sound, release two keys.

The scale will return to factory setting.

3-5 G Value Adjustment

Steps:

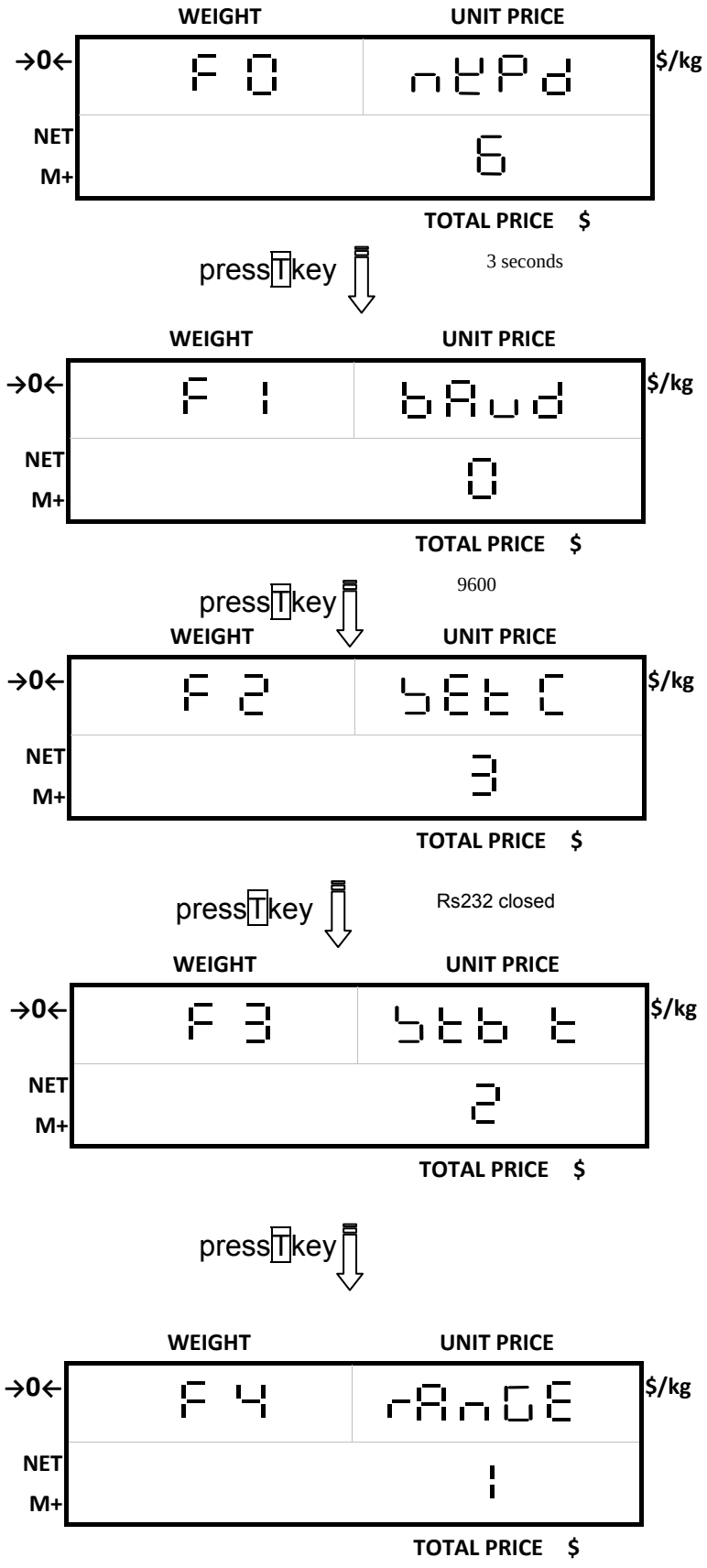
1. Press [0] key and do not release, and then power on to enter int G value adjustion mode.
2. Press [T] key to search the historic G value data.
3. Press [M+] key to set and confirm G value.
4. Press [0] ~ [9] key to input the value.
5. Press [CE] key to shift the flashing digit one space to left.
6. Press [·] key to exit.

It can be revise the G value in 9 times..

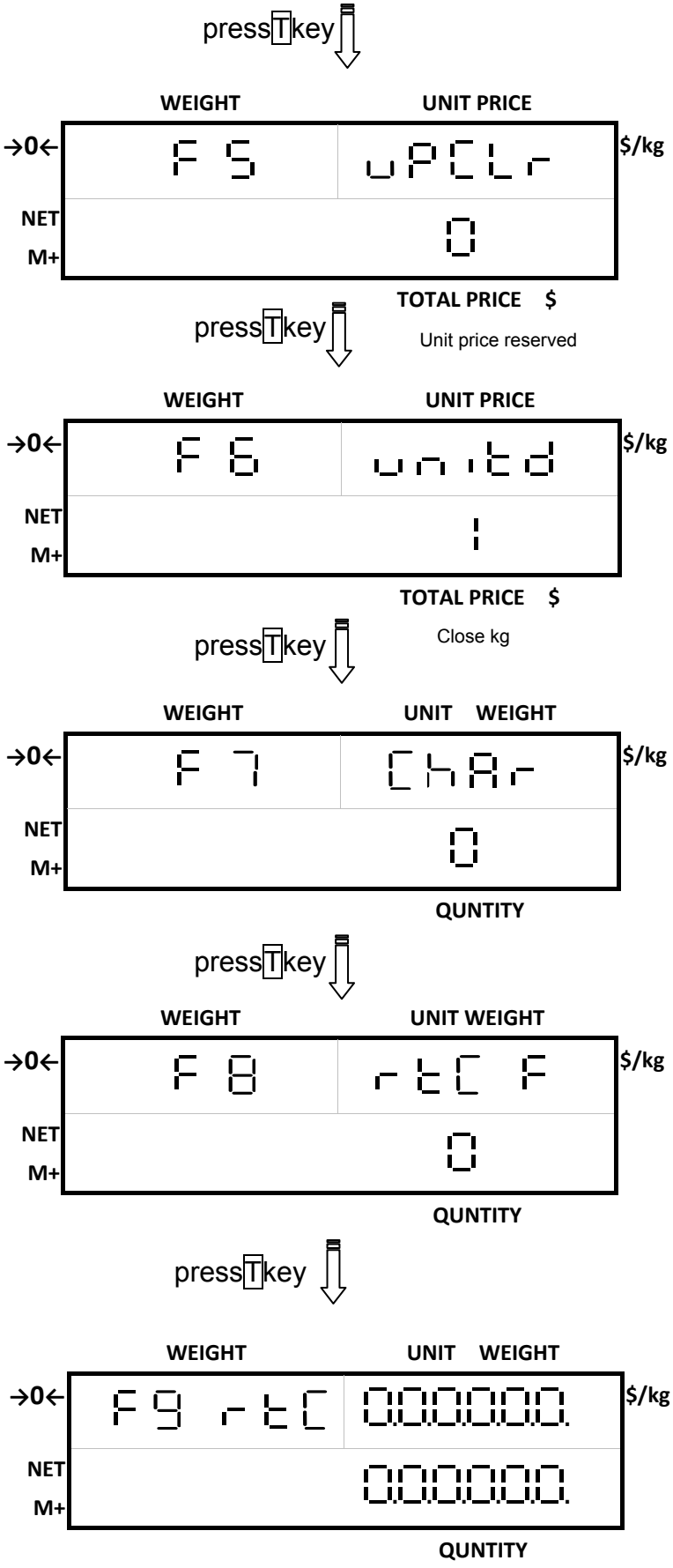
The G value range is from 9.78031 to 9.83217.

Chapter 4 Function Setting

Press [MC] key do not release, and turn power on to enter function setting mode.

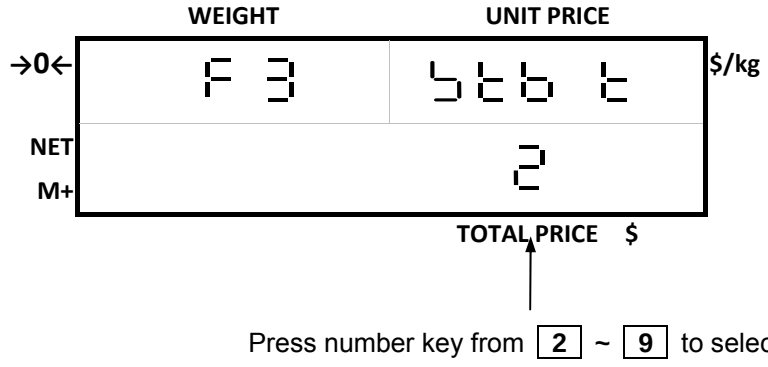


F 0 ⇒reserved
F 1 ⇒reserved
F 2 ⇒reserved
F 3 ⇒Stabilization(Reading Times)
F 4 ⇒Stabilization (Range)
F 5 ⇒Clear Unit Price Immediately After [MC]
F 6 ⇒Switching-on Unit Mode Setting
F 7 ⇒reserved
F 8 ⇒reserved
F 9 ⇒reserved



Press T key, return to F1

4-1 F3 ⇒ Stabilization (One of judgement conditions) ⇒ Reading Times

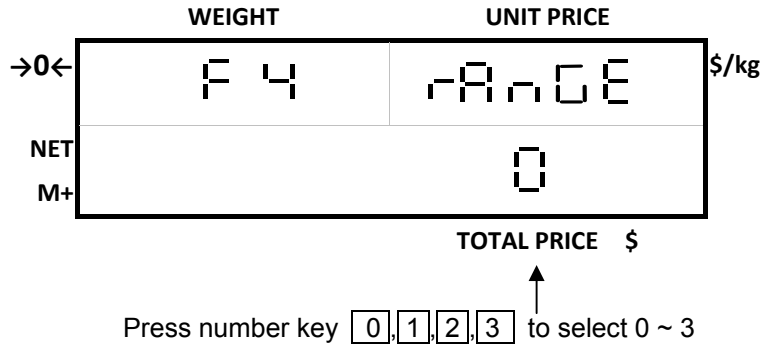


2~ 9 ⇒ Reading times "2 ~ 9"
Default setting ⇒ 6 times

Press [T] to go to next setting mode.

Press [M+] to save setting values. The scale will count backwards to zero and back to weighing mode from exiting setting mode.

4-2 F4 ⇒ Stabilization (One of judgment conditions) ⇒ Range

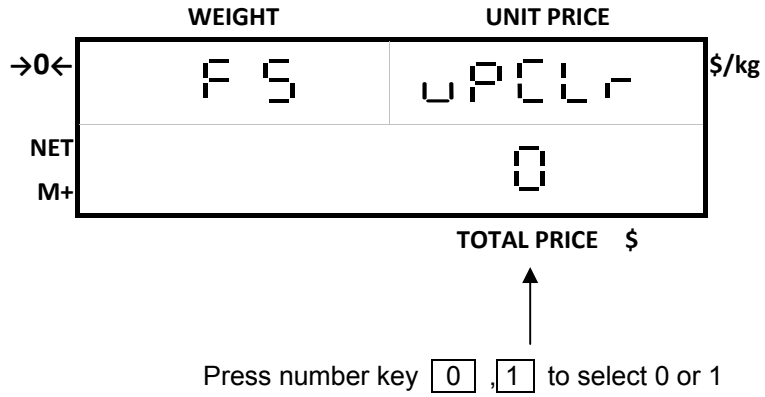


0 ⇒ 1/4 d
1 ⇒ 1/2 d
2 ⇒ 3/4 d
3 ⇒ 1 d

Press [T] to go to next setting mode.

Press [M+] to save setting values. The scale will count backwards to zero and back to weighing mode from exiting setting mode.

4-3 F5 ⇒Clear Unit Price Immediately After MC

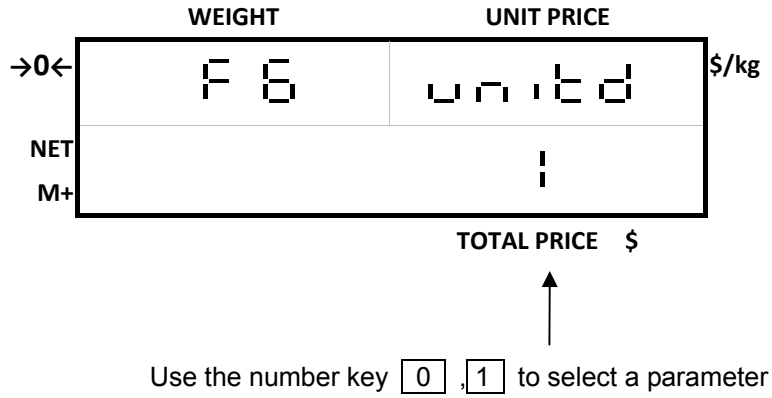


0 ⇒ Unit price reserved.
1 ⇒ Clear unit price immediately.
(Press MC to clear unit price immediately in accumulation mode and change mode.)

Press T key to enter the next setting mode.

Press M+ key to save setting values and exit the setting mode. The scale will count backwards to zero and return to the weighing mode from exiting setting mode.

4-4 F6 ⇒ Switching-on Unit Mode Setting



0 ⇒ The weighing unit remains the prior set mode *
* Prior setting mode: If a certain switching-on unit is set, this unit will be the one at switching on.

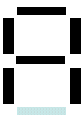
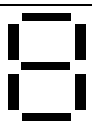
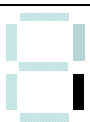
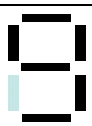
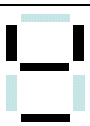
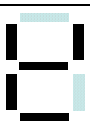
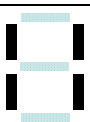
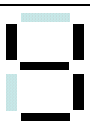
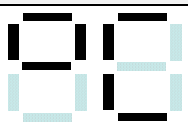
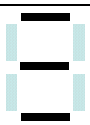
If no unit is set, the unit at switching off last time will be the unit at switching on

1 ⇒ The weighing unit is as switching on is always “kg”

Press T key to enter the next setting mode.

Press M+ key to save setting values and exit the setting mode. The scale will count backwards to zero and return to the weighing mode.

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