

# Weighing Scale 10key&12key User Manual

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Thank for your purchasing of our EXCELL Weighing Scale. To guide you to use our product correctly, please read this User Manual carefully to extend the life of machine and to avoid error.

# **Precautions for Use**

- 1. Please keep scale in a cool and dry place. Do not store under high temperatures.
- 2. Please keep the scale clean and free from insect infestation.
- 3. Avoid impacting with other items or overloaded with excessively heavy weights (The load must not exceed the maximum capacity of the scale).
- 4. 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 from building up.
- 5. Do not mix different types of dry battery or mix used dry batteries with new dry batteries.
- 6. Recommendation: Use this product in an environment with altitude up to 2000m.
- 7. Any suggestion is warmly welcome.

# **Preparing to Use the Scale**

- 1. Locate the scale on a firm level surface free from vibrations for accurate weight readings. Adjust the four leveling feet to centre the leveling bubble on the scale.
- 2. Avoid hot sunshine directly on the scale or near the exhaust port of ventilating system.
- 3. Please use a separate power source plug, to avoid the disturbance of other electric appliance.
- 4. There should be no weight on the scale when power is turned on.
- 5. Commodity should be placed at the centre of platter when being weighed, and its size should not exceed the dimension of the platter.
- 6. Please warm the scale 15 ~ 20 minutes before using.
- 7. Please note that when symbol appears on the screen, the scale needs to be recharged.
- 8. Introduction of Storage Battery:



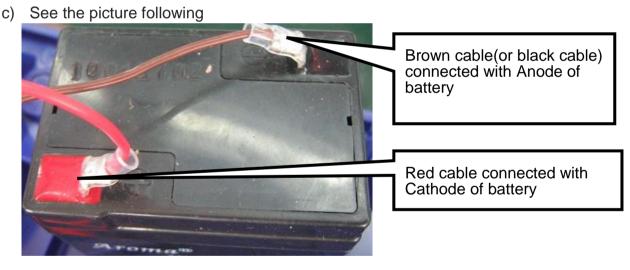
Due to the storage battery adopt the advanced free-maintaining technique, customers need not to replenish electrolyte.

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  $45^{\circ}$ 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)



# 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

n Children Faraway

# Chapter 1 Introduction 1-1 Features

- 1. High performance A/D converter
- 2. According to different resolution to do linearity calibration
  - Ordinary resolution models (below 10000)
     Do specification calibration first then do weight calibration
  - High resolution models (10000~30000)

Do linearity calibration first  $\rightarrow$  specification calibration  $\rightarrow$  weight calibration at last

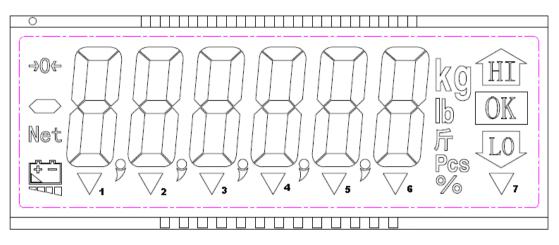
- 3. One group of RS232 (option)
- 4. 4 HOLD functions (contain animal scale HOLD function)
- 5. LCD display
- 6. Adapter or rechargeable battery
- 7. Blackout automatically in order to keep the system stable

(When battery voltage is lower than system voltage, the system will cut the power off automatically to ensure its stable and accuracy.)

8. LED BACKLIGHT



#### **1-2 Display Description**



Î	:	High limit value
OK	:	OK value (The value between HI and LO limit value)
LO	:	Low limit value
⇒0←	:	"Zero" indication
Net	:	"Net weight" indication
	:	"Low battery power" indication
$\nabla 1$	:	"Stable" indication
▽2	:	"Pre-tare mode" indication
$\nabla$ 3	:	"Totalizing mode" indication
$\nabla$ 4	:	No function
$\nabla$ 5	:	"Samples insufficient" indication
$\nabla 6$	:	"Unit weight insufficient" indication
$\nabla$ 7	:	"Viss" unit (Burma unit)
kg	:	"kg" unit
d	:	"Ib" unit
斤	:	No function
Pcs	:	Counting mode
%	:	Percent indication (no functions)

#### Dranges of "Range" indication mode

The indicator with 2-segment specification:

 $\dot{\nabla}$ 6 is Range 1  $\dot{\nabla}$ 5 is Range 2



#### **1-3 Keypad Functions Description**

10-key model does not have

₩ key and key.

		UNITS
↔PT	M+	
<b>→0</b> ←	<b>+</b> \$	1/0
*	CE	@/

:	Press this key to	select the	required	unit from	the preset	units.
---	-------------------	------------	----------	-----------	------------	--------

- : Press this key to preset the weight and quantity.
- : Press this key to accumulate the weight value or others.
  - : Press this key to tare (deduct the container weight)
  - : Press this key to preset tare value.
  - Press this key to recall the totalization value, preset value and pre-tare value.
  - : Press this key to clear the totalization value, preset value and pre-tare value.
  - : Press this key to zero the scale.
  - : Press this key to print the total data and to confirm.
  - : Press this key to input the numbers  $(0 \sim 9)$  and to light up the backlight.
  - : Press this key to go into counting mode.
  - : Press this key to sample.

#### **1-4 Power Description** Power Selection

- 1.6 V / 4 Ah Rechargeable battery
- 2. 100~240 V AC

#### **Power Consumption**

Indicator + L/C + no backlight	27 mA
indicator+ L/C + front display	37 mA
backlight	37 IIIA

#### Low Power Alarm

Please note when the ( 🚰) symbol keeps flashing on the left down corner of the display, the batteries should be recharged.

- The scale will turn off automatically after a few hours when the low battery warning symbol shows up. The scale must be fully recharged, before operating again.
- Please recharge at once when the symbol shows in order to keep the weight accuracy.

#### 1-5 Error Messages

- $\Box$   $\Rightarrow$  Weight exceeds 9d of maximum capacity. (d=division)
- E  $\Rightarrow$  Zero point positive deviation after power on exceeds +10% FS (i.e. zero point deviation over 10% of full scale [max. capacity] above calibration zero point).
- $\Xi \Xi \Rightarrow$  Zero point negative deviation after power on exceeds -10% FS (i.e. zero point deviation over 10% of full scale [max. capacity] below calibration zero point).
- $\Box$   $\Rightarrow$  Unstable zero return, unstable over 10 sec. Press  $\rightarrow 0+$  to leave E4.
  - $\Rightarrow$  Zero is too high when calibrating. (over internal value350,000)
  - $\Rightarrow$  Zero is too low when calibrating. (under internal value 80,000)
- $\Rightarrow$ If there is no Tare or Pre-tare, the weight is less than -20d.

# **Chapter 2 General Operation Description**

# 2-1 Backlight Function

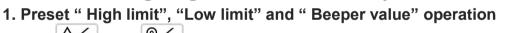
- Press key to select the display backlight mode:
- **E. PICE**  $\Rightarrow$  "Auto Backlight" mode. When the weight is over 10d or any key is pressed, the display backlight will be switched on. When the weight returns to zero (the weight on platform is less than 10d), the display backlight will switch off after 10 seconds.
- $\Rightarrow$  Display backlight is on all the time.
- $\Rightarrow$  Display backlight is off.

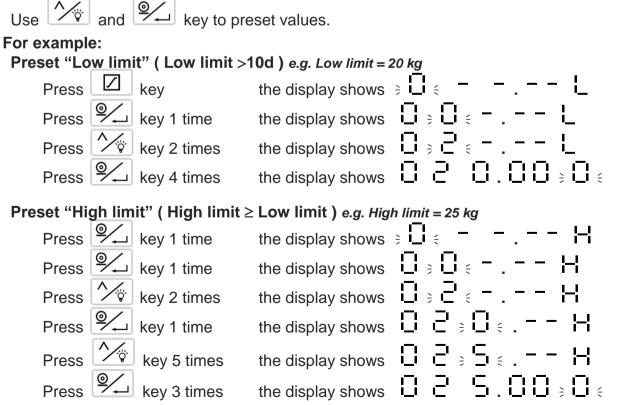
### 2-2 Weighing Mode

#### 2-2-1 Units Selection

- 1. After indicator is turned on, use **UNITS** key to select a unit from kg, lb, tael or viss, as the screen indicated.
- 2. The selected unit will be memorized when you turn the indicator off. And the memorized unit will appear after you turn on the indicator next time.

#### 2-2-2 Check Weighing Mode $\Rightarrow$ For 12key model





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#### Preset "Beeper value" ( Refer to NOTE ) e.g. Beeper value = 22

		key 1 time	the display shows	;0:-b
	0	key 2 times	the display shows	;2: - b
	()	key 1 time	the display shows	2÷8÷₽
	2	key 2 times	the display shows	
Press	<u> </u>	key 1 times	the display shows	0.000

Preset Single point (preset low limit only):

After "preset low limit" procedures is completed and the display shows  $\Rightarrow \square \in \neg \neg \neg \neg$ H, then press  $\square$  key again, the display shows  $\square \square \square \square \square$ . This means that the "preset single point" procedure is completed.

#### NOTE

_	_	_	<u>X</u>	<u>X</u>	<u>L</u>
			Α	В	

A Setting for the status that LCD is on and the beeper beep:

0 = When stable, the beeper beeps and LCD is on.

- 1 = When stable, the beeper beeps; whether stable or not, LCD is on.
- 2 = Whether stable or not, the beeper beeps and LCD is on.
- 3 = Activates alarm mode. When the weight is over High Limit and stable, the LCD indicator is on, and RelayCard is activated.
- **B** Setting for the beep status:
  - 0 = No beep
  - 1 = OK (when the weight is over Low Limit & under or equal to High Limit.), the beeper beeps.
  - 2 = When the weight is under or equal to Low Limit & over High Limit, the beeper beeps.
- Under Status in Preset Low Limit (preset single point only) The BEEP, LCD mode should be fixed as follows:

When over "Low Limit", the beeper beeps and 10 is off Whether stable or not, the beeper beeps and LCD indication is on

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#### Alarm Mode Settings:

Sets High Limit (weight alarm limit). Low Limit is disabled (you can be freely set any Low Limit value without any effect). The beeper setting is 32.

When weight alarm limit is reached, RelayCard (HIGHT) is activated with one weight totalizing. When weight returns to zero, the weight alarm is deactivated (the LCD indication is off, and RelayCard returns to normal). Totalized weight values range from [000.000] to [999999].

創

#### **Clearing Alarm Totalized Weight Values:**

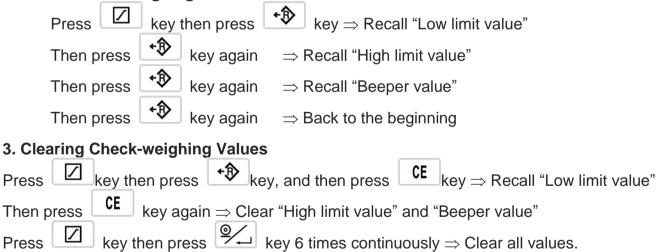
- ◆ Press <sup>(</sup>→) key followed by <sup>(CE)</sup> key, then all totalized weight values are cleared.
- When switching among weighing, counting, and alarm totalizing modes, or when changing among the weighing units, totalized weight values are automatically cleared.
- After turning off the electronic scale, totalized weight values are automatically cleared.

LCD indication:



To exit preset mode, please press UNITS key.

#### 2. Recall Check-weighing Values



#### 2-2-3 Totalizing

#### 1. Weight Totalizing

Place goods on the platter, after stable and press  $M^+$  key to save the weight value. Then the display shows the total number of additions and the totalized weight value. And the (M+) indication " $\checkmark$ " will flash on the display. The indicator will recover to show the weight value of the goods on the platter after 3 seconds and the (M+) indication " $\checkmark$ " is on.

- The indicator allows the next totalizing operation, even when the weight value does not return back to zero. The M+ key is functional, when the weight value changes by more than 10d. The indicator will save the totalized weight value after the weight is stable.
- The indicator can totalize positive or negative weight but can't do both at the same time. The totalized weight store must be reset to zero before it is possible to select positive or negative totalizing mode.
- The totalizing function can be used up to a maximum of 9999 times before it must be reset. The totalizing display is limited to 6 digits maximum.
- When totalizing, RS-232 will also output. (Refer to F5 setting)

#### 2. Clear Totalized Weight Values

- Press then **CE** key to clear all totalized weight values.
- When changing between weighing and counting mode, or selecting weighing unit, the indicator will automatically clear all the totalized weight values.
- The indicators will automatically clear all the totalized weight values after turning on.

#### 3. Recall Totalized Weight Values

Press key to display the total number of additions and the totalized weight value.

And the (M+) indication " $\bullet$ " will flash on the display. The indicator will return to the weighing mode after 3 seconds.

The indicator will not display the negative sign "-" for negative totalized weight values when recalling a totalized weight value, but when printing, the negative sign "-" will be printed out (transmitted serially) for each negative weight and negative totalized weight.

#### 2-2-4 Zero Function

Press  $\rightarrow 0+$  key to re-zero the display with no load on the platter. When zero is set, the ( $\rightarrow 0+$ ) symbol will be displayed.

#### 2-2-5 Tare Function

- 1. When the weight of the container is unknown (
  - Place the container on the platter, after stable and press key, the weight value returns to zero and net indication (**Net**) is on.
  - Place goods into the container, then the indicator shows the net weight of goods.
  - Clear tare value

When removing the container and goods, the display shows the negative weight value of the container. Then press key to clear tare value. The indicator returns to zero and net indication (**Net**) is on.

• Recall tare value Press • then • key  $\Rightarrow$  the display shows tare value

In Multiple tare operation  $\Rightarrow$  Users can continuously increase or decrease the tare value

- by pressing the 😾 key.
- The total tare value (tare value + pre-set tare value) can equal the full capacity of the indicator.
  - 2. When the weight of the container is known (
    - Press key and the display shows  $\Rightarrow \Box \in --- P$ . Use and weight value of the container. After finishing

the procedures, the net indication (**Net**) and pretare indication "-" is on.

- Place goods into the container, then the indicator shows the net weight of goods.
- Clear pretare value

Press then key, and then press CE key to clear pretare value. When the indicator returns to zero, net indication (Net) and pretare indication "-" are off.
Recall pretare value

- Press then key  $\Rightarrow$  the display shows pretare value
- In Tare mode, the Preset tare function is disabled.
- The indicators with two weighing ranges can NOT pre-set the tare value larger than the first weighing range. For example: a 30 kg indicator is set by two weighing ranges. The first range is 0 to 15 kg, and the second range is 15 to 30 kg. The pre-set tare value can not be larger than 15 kg.

### **2-3 Counting Function**

#### 2-3-1 Sampling

- Press key to select sample quantity from 10, 20, 50,100 and the display shows 10, 20, 50,100 and the display

After stable, the scale enters into counting mode and the display shows sample quantity.

- Sample Too Small (  $\overset{++}{\longrightarrow}$ )  $\Rightarrow$  Sample is less than 20 divisions.
- Unit Weight Too Small  $\left( \begin{array}{c} \\ Pcs \end{array} \right) \Rightarrow$  Unit weight is less than 0.2 division. (0.1 d for Brazil regulation)
- When sampling, the above two symbols indications are on. Under such conditions, the scale can still work, but may result in lower count precision.
- When using 2-segment weighing mode, the above two symbol indications change to Range 2 and Range 1 and the two symbol indications are off.

#### 2-3-2 Check Weighing

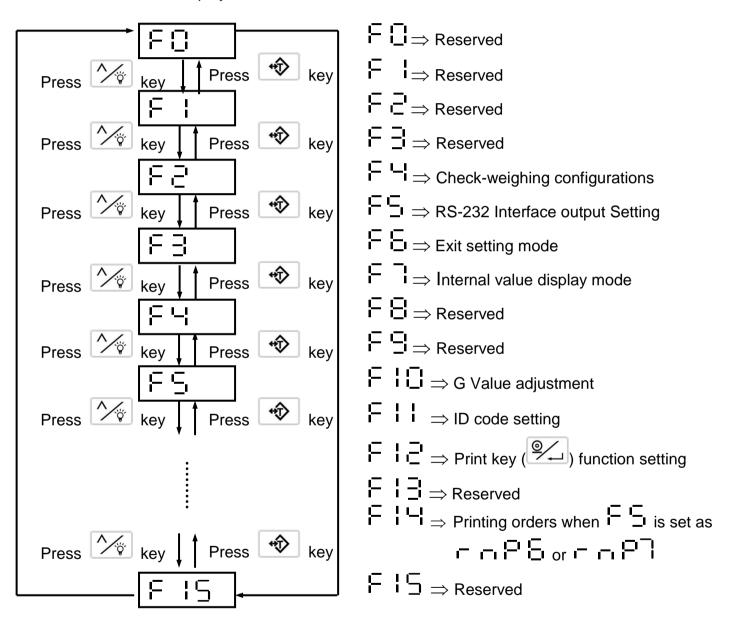
Refer to the operation of check weighing in weighing function.

#### 2-3-3 Totalizing

Refer to the operation of totalizing in weighing function.

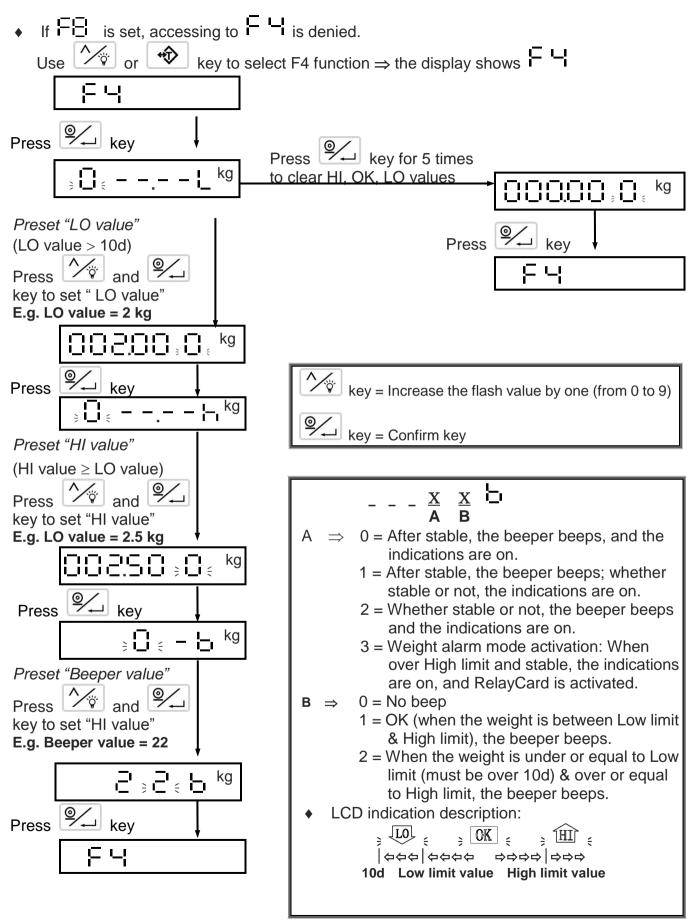


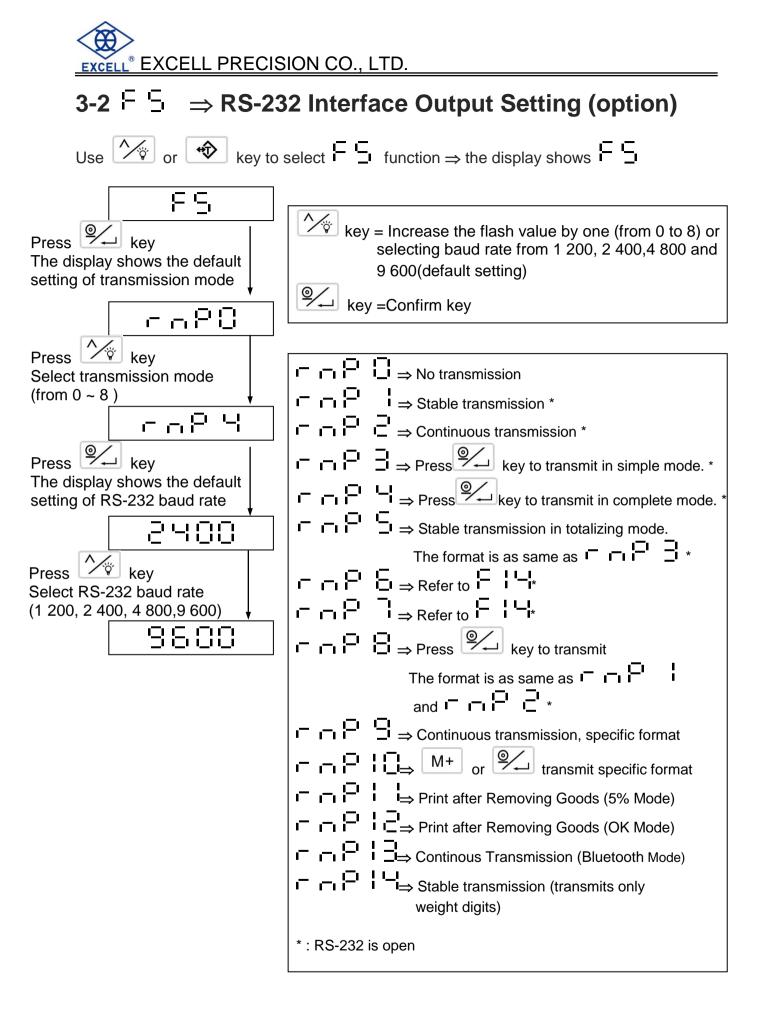
# **Chapter 3 General Function Setting**



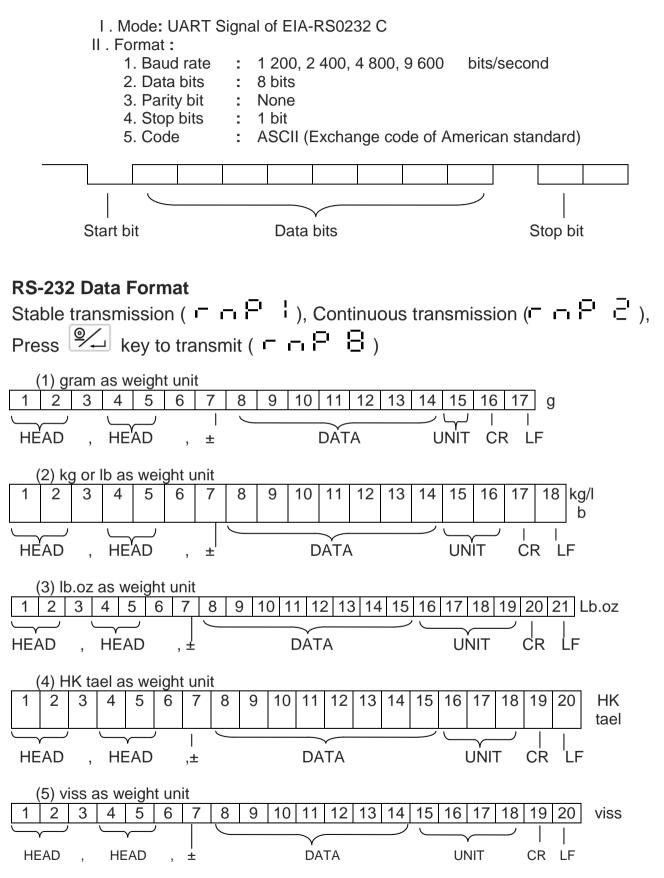


# 3-1 $\vdash \dashv \Rightarrow$ Check Weighing Configurations





#### **RS-232 Interface Format**





	HE	EAD1(2 BYTES)	HEAD2 (2 BYTES)
OL	-	Overload, Under load	TR - TARE Mode
ST	-	Display is Stable	N - NET Mode
US	-	Display is Unstable	G - GROSS Mode

DATA (7 or 8 BYTE)

```
2B (HEX) = " + " (PLUS)

2D (HEX) = " - " (MINUS)

2E (HEX) = " . " (DECIMAL POINT)

UNIT (2 \cdot 3 \text{ or } 4 \text{ BYTE})

kg = 6B (HEX) ; 67 (HEX)

lb = 6C(HEX) ; 62 (HEX)

tl.T = 74 (HEX) ; 6C (HEX) ; 2E (HEX) ; 54 (HEX)

hkg = 68 (HEX) ; 67 (HEX)

viss = 76 (HEX) ; 69 (HEX) ; 73 (HEX) ; 73 (HEX)
```

#### **Transmission examples:**

Data format for  $\neg$   $\neg$   $\neg$   $\neg$   $\neg$  RS-232 continuous transmission are as below:

1. The gross w	veight (+C	).876	kg) sho	ws as b	elow	after	stab	le: (u	Inder	no t	tare r	node)
S T ,	G	,	+	(	) .	8	7	6	k	g	0D	0A
	′								$\subseteq$	<b>۲</b>		
HEAD1 ,	HEAD2	,			DAT	Ą			U	NIT	С	LF
2. The net weight U S ,	ght (-1.56 	68 lb) ,	shows a		w with	nout w 5	reight 6	t stat	oility:	(und b	der ta 0D /	are mode) 0A 
HEAD1 ,	HEAD2	, ,			DATA	<b>\</b>			U	TIV	С	LF
3. The net wei S T , 1		0624	HK tael	<b>,</b>	s as b )   6	elow,				unde c g		
HEAD1 , H	IEAD2	,			ΟΑΤΑ				UN	ΙIT	С	LF
4. The net weig S T , 1	¯   R   , 	45 vis +	s) show	1	2	after s	_	e: (ur v	i s	s s		0A 
HEAD1 , H	HEAD2	,		Γ	ΑΤΑ				UN	IF	С	LF

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Press	key to t	transmit (simple mode) ㄷ ㄷ ᄃ 글
S/N	WT/UNIT(I	<g )<="" lb="" th=""></g>
0001	1.0000	Series <a>Press</a> or <a>M+</a> key
0002	1.0000	♥ Press or M+ key
0003	1.0000	Series  Series  Or  M+ Key
0004	1.0000	Series  Series  Or  M+ Key
0005	1.0000	Series Press or M+ key
0005	5.0000	✤ Press  twice to print TOTAL
Press	key to t	transmit (complete mode) ㄷ ㄷ ᄃ ᄂ
TICKET G T N	NO. 0001 1.000kg 0.000kg 1.000kg	Service Press or M+ key
(3 blank	lines)	
TICKET G T N	NO. 0002 1.000kg 0.000kg 1.000kg	⊸ Press Or M+ key
(3 blank	lines)	
TICKET G T N	NO. 0003 1.000kg 0.000kg 1.000kg	Service Press or M+ key
(3 blank	lines)	
TOTAL N OF TICK TOTAL NET	IUMBER ETS 0003 3.000kg	The Press twice to print TOTAL
(3 blank	-	
🗐 G = GR	OSS T = T	ARE PT = PRE-TARE N = NET

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#### Stable Transmission (totalizing mode)

S/N	WT/UNIT(kg / lb)		
0001	1.0000	-	The scale is stable
0002	1.0000	Ð	The scale is stable
0003	1.0000	Ð	The scale is stable
0004	1.0000	Ð	The scale is stable
0005	1.0000	Ð	The scale is stable
0005	5.0000	Ð	Press Livice to print TOTAL

#### RS232 output format in HOLD MODE

Please set 🖛 👘 🗗 🚰 in 🧧 🔄 .
If there is only RS-232, press I to print out the HOLD value on the display.

#### Continuous Transmission (specific form) ー ー ー ー ー (Brazil customer)

The print out is as below:

If display shows 70.15kg, the RS-232 export is 51.07000 If display shows -70.15kg, the RS-232 export is 51.0700-If display shows OL, then RS-232 print nothing.

# M+ or 🦳 key Transmission(specific form) – ⊢ 🖓 🖓 🖓 (Brazil customer)

M+	Prii	nt ou	it forr	nat															
F	R	"	W	Т	3	Ν	""	<lf></lf>											
?	<lf></lf>																		
G	G	,	G	G	G	<lf></lf>													
Т	Г	,	Т	Т	Т	<lf></lf>													
ΡΤ	PT	,	PT	PT	PT	<lf></lf>													
Ν	Z	,	Ν	Ν	Ν	<lf></lf>													
pcs	pcs	pcs	pcs	pcs	pcs	<lf></lf>													
n	n	n	n	n	n	t	t	t	t	t	t	pcs	pcs	pcs	pcs	pcs	pcs	<lf:< td=""><td>&gt;</td></lf:<>	>
р	1	,	1	<lf></lf>															
For	exam	ple:																	
ΡT	0.3KC	3																	
Т	0.7KC	3																	
G	1.2KC	3																	
Ν	0.2KC	3																	
PCS	2	0																	



Then the printing form is: FR"WT3N " ? 1,200 0,700 0,300 0,200 20 00002000100000020 P1,1 key or key twice to clear the format CE €₿ Use Then the printing-clearing form is: " <LF> " F R 5 ? <LF> ΤN ΤN ΤN ΤN ΤN ΤN <LF> TW TW TW TW ΤW TW <LF> TΑ TA TA TΑ TA TA <LF> tn <LF> tn tn tn tn tn tw tw tw tw ta ta ta tn tn tn tn tn tn tw tw ta ta ta <LF> 1 1 <LF> р . FR"520T ? 1 0,200 20 000001000200000020 P1,1

### Print after Removing Goods (5% mode) ㄷ ㄷ ㄷ ㄷ

Stage	Condition(s)	Action(s)			
1: Goods placed	Weight has become stable.	Beeper beeps twice, and			
and weighed on	Weight > zero point	printing data (stable weight			
platter	Weight ≥ 20 weighing units	compliant with conditions on			
	(i.e. 5% x Weight ≥ 1 weighing unit)	the left) is ready to be sent.			
2: Just removed	Instantaneous weight reading drops	Printing data of Stage 1 is			
goods from platter	below 95% of last stable weight (stable	sent to the printer (same			
	weight of Stage 1)	printing formats as those of			
		ra£t).			

# Print after Removing Goods (OK mode)

Stage	Condition(s)	Action(s)
1: Goods placed	Weight has become stable.	Beeper beeps twice, and
and weighed on	Weight > zero point	printing data (stable weight
platter	Check weighing <b>OK</b> status (within a	compliant with conditions on
	predetermined weight range)	the left) is ready to be sent.
2: Just removed	Instantaneous weight reading drops	Printing data of Stage 1 is
goods from platter	below 95% of last stable weight (stable	sent to the printer (same
	weight of Stage 1).	printing formats as those of
		P   ).

# Continuous Transmission (Bluetooth Mode)

HEAD1 ( 2 BYTES ) HEAD2 ( 2 BYTES )										
OL - Overload, Under load	TR - TARE Mode									
ST - Display is Stable	N - NET Mode									
US - Display is Unstable	G - GROSS Mode									
DATA (8 BYTE)										
2D ( HEX ) = " – " ( MINUS ) 2B ( HEX ) = " + " 2E ( HEX ) = " . " ( DECIMAL POINT )										
UNIT ( 3 BYTE )										
ʻ'kg										
''lb	•									
tlT										
hka										

hkg vis

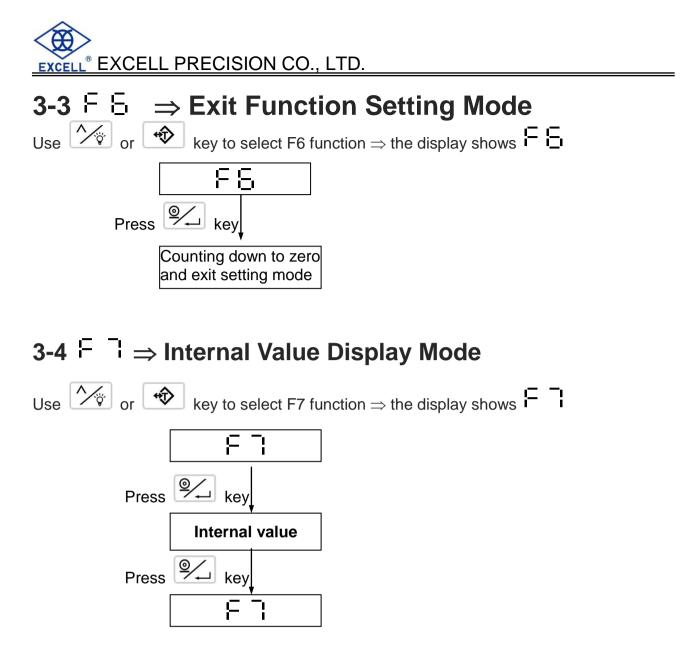
Example: +0.876kg stable gross weight is as follows: (under no tare mode)

	-			-	-	-	-					-			
S	Т	,	G		,	+		0	8	7	6	k	g	0D	0A
HE	AD1	,	└──~ HE	 AD2	,										

# Stable Transmission (transmits only weight digits)

Example: 1.000kg => Prints only 1.000

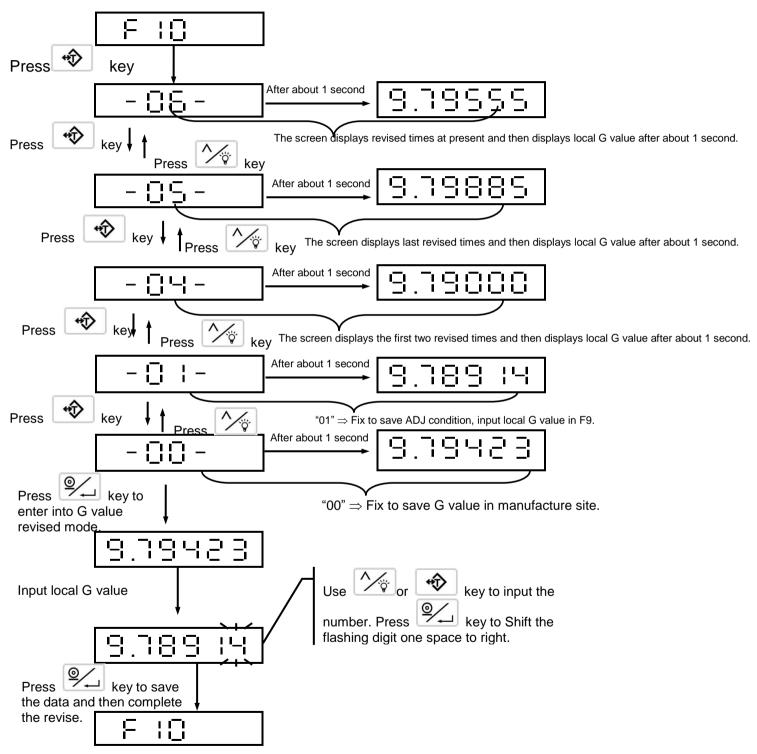
1 . 0 0 0 0D 0A
-----------------

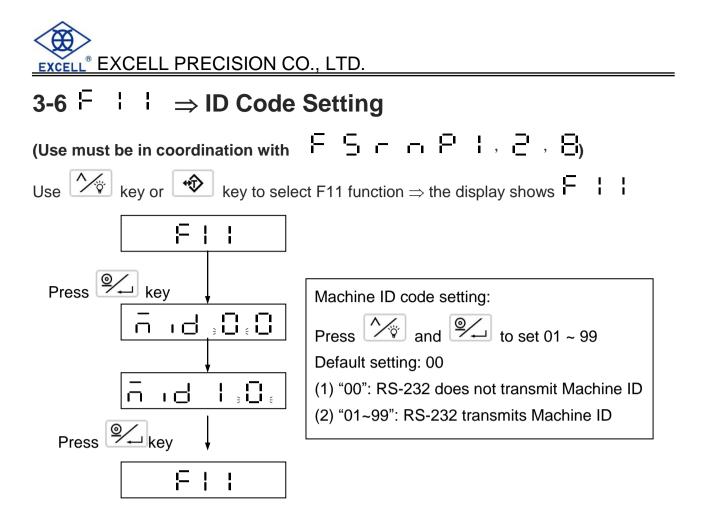




### 3-5 $\vdash$ $\Box \Rightarrow$ G value Calibration

Use key or key to select F10 function. ⇒ The display shows FID. You can input at most 9 sets of G value's data. The historic data can be found out and not to be revised.



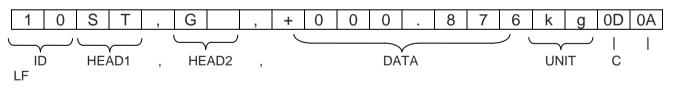


#### **RS232 DATA FORMAT**

Stable transmission ( $\neg \neg P \downarrow$ ), Continuous transmission ( $\neg \neg P \downarrow$ ), Press key to transmit ( $\neg \neg P B$ )

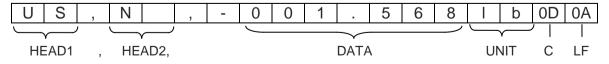
1. e.g. Machine ID code is 10.

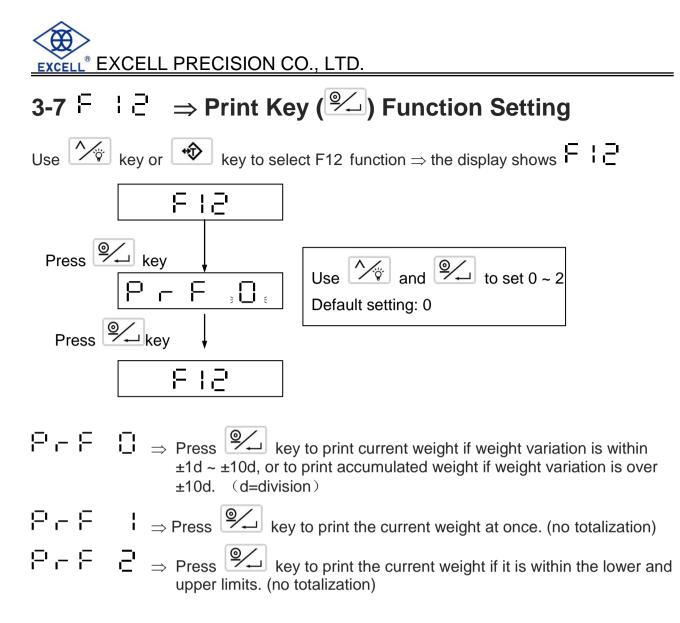
The gross weight (+0.876 kg) shows as below, after stable: (no tare or under pre-tare mode)



2. e.g. Machine ID code is 00. (Not using Machine ID function.)

The net weight (-1.568 lb) shows as below without weight stability: (under tare or pre-tare mode)



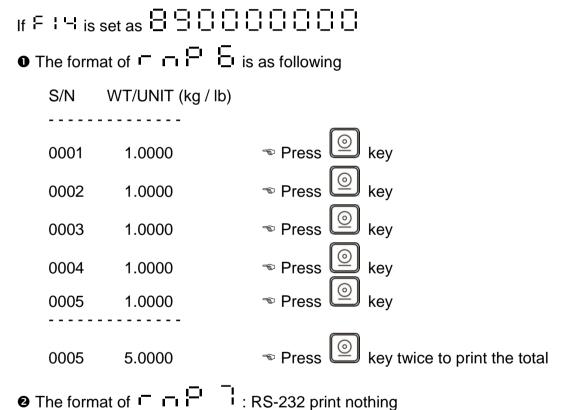




# 3-8 <sup>⊢</sup> ¦ └ ¦ ⇒ Printing orders when <sup>⊢</sup> <sup>∟</sup> is set as

No.0	No print.
No.1	TICKET NO.
No.2	G
No.3	Т
No.4	PT
No.5	Ν
No.6	P/N
No.7	S/N
No.8	No print
No.9	No print
No.A	PCS

#### F I H Contains a 9-digit code



EX		CELL PRECISIO	N CO., LTD.								
If F											
	• The format of $\Box$ $\Box$ $\Box$ $\Box$ $\Box$ is as following										
	P/N 0123 TICKET N G T PT N	45678901 NO. 0001 75.01kg 0.00kg 0.00kg 75.01kg									
		VT/UNIT(kg / lb)									
	0001	1.0000	⊸ Press 🔘 key								
	0002	1.0000									
	0003	1.0000	Service Se								
	0004	1.0000	Press  key								
	0005	1.0000	⊸ Press 🧕 key								
	0005	5.0000	✤ Press  key twice to print the total.								
0	The format		as following								
	P/N 0123 TICKET N G T PT N	45678901 NO. 0001 75.01kg 0.00kg 0.00kg 75.01kg	⊸ Press interview key								
	TOTAL N OF TICKE TOTAL		✤ Press  key twice to print the total								
	NET	0.499kg									

# **Appendix 1 7-Segment Display Characters**

Number	Display	Letter	Display	Letter	Display
0		А		Ν	
1		В		0	
2		С		Р	
3		D		Q	
4		Е		R	
5		F		S	
6		G		т	
7		Т		U	
8		l		V	
9		J		W	
		К		Х	
		L		Y	
°C		М		Z	