CONTENTS
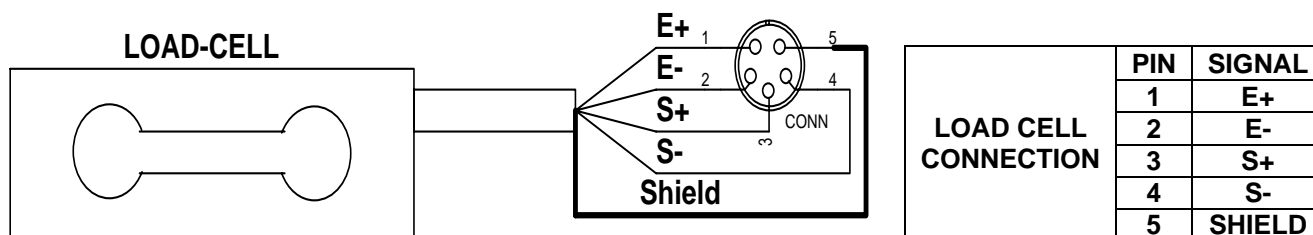
【PRECAUTIONS】

DO NOT use the scale or indicator

◆ Please fully charge the battery after unpacking the scale.

◆ Install the equipment on a level and stable surface.

◆ Do not use the equipment in an environment with strong wind, vibration or electromagnetic wave (e.g. near an air conditioner outlet, fan outlet or a heavy machine).

◆ Operation temperature: -10℃~40℃, and try not to use in the environment with rapid temperature changes. Please use independent power socket to avoid interference (transformer is built-in).

◆ Warm up the equipment for 15 minutes before use.

※ **Recharge the battery**: Please charge the battery when battery symbol appears on the LCD display, which means the battery is running out. During charging, the charge indicator will light up in red; when charging is completed, it turns green. (It takes about 8 hours to fully charge the battery.)
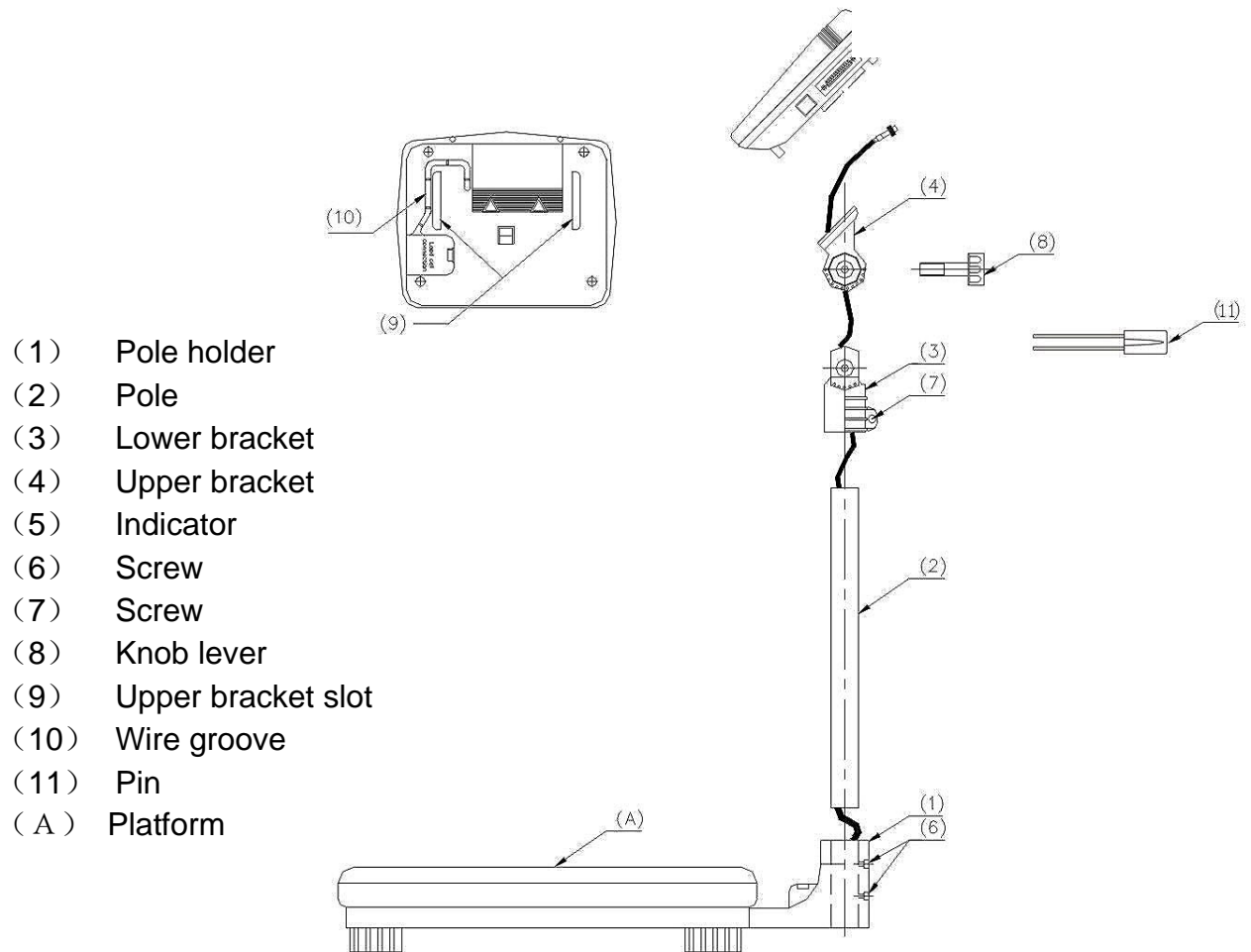
Leveling Adjustment

The electric scale shall be placed on an even place. Check the level gauge of the scale to see if the scale is in a level position. If not, adjust the adjustable feet of the scale.

【INSTALLATION】

Load Cell Connection

	PIN	SIGNAL
	1	E+
LOAD CELL	2	E-
CONNECTION	3	S+
	4	S-
	5	SHIELD

Setting up the platform

（1） Pole holder
（2） Pole
（3） Lower bracket
（4） Upper bracket
（5） Indicator
（6） Screw
（7） Screw
（8） Knob lever
（9） Upper bracket slot
（10） Wire groove
（11） Pin
（Ａ） Platform

■ Run the Load Cell wire on the erecting pole holder (1) through the erecting pole (2), insert the erecting pole (2) into the hole in the erecting pole holder (1), then lock the two screws (6) tight.

■ Run the Load Cell wire through the lower bracket (3), and insert the lower bracket (3) into the erecting pole (2), then lock the screw (7) tight.

■ Run the Load Cell wire through the upper bracket (4), and connect the display head (5), then insert the upper bracket (4) into the slot (9) till 1/2 position. [Be sure to place the wire outside the upper bracket]

■ Place the Load Cell wire inside the wire groove (10), assemble the lower bracket (3) and the upper bracket (4), and then fully insert the upper bracket (4) into the slot (9), lock the upper bracket (4) and the lower bracket (3) by use of knob lever (8), and insert pin (11).

■ Use the knob lever (8) to adjust the display head to the optimum position and lock tight.

LCD Display and function of each key

LCD Display

Key	Functions	Key	Functions
ON/OFF	To turn power on or off.	ZERO	Manual return to zero.
0 ~ 9 and •	Numeric keys and decimal point key, used for setting unit price, pcs, etc.	M+	To memorize the amount of commodities weighed.
UNIT	To switch units.	MR	To display the accumulation data.
PLU	To memorize unit price of commodity.	MC	To clear the accumulation data.
CE	To clear the unit price data.	TARE	To deduct tare weight.
+	To add up unit prices of commodities that does not require weighing.		

【FUNCTIONS】

Numeric Keys and Decimal Key

Keys 0 ~ 9 and • are used to key in the show value in the Unit Price Window or other functions.

ZERO

When there is residual value in the Total Weight Window, press ZERO key and the Total Weight Window will show ZERO.

TARE

1. Place the tare object on the weighing pan.
2. Press TARE key.
3. Tare cancellation: Press TARE key to cancel.

Accumulation

a. When accumulating the prices of more than one kind of object, input the unit prices and place the objects on the weighing pan until they are stable, press M+ key to perform accumulation, the Total Weight Window, Unit Price Window and Total Price Window will show ALL.XX , - - - - and XXXXX in turn, which means total data, no display and total price respectively. Press any Numeric key to input the next unit price or press CE key to return to normal weighing mode.

b. Accumulation can only be performed in the stable mode (±0.1e).

c. If the total data is over 10, the Unit Price Window will show ALL.ou , which means the total data is over the range. Accumulation will not be performed, and the scale will return to normal weighing mode in one second.

d. When the digit number of total price (incl. decimals) is beyond the display range, the Total Weight Window will show ouEr , which means the digit number of total price is beyond the display range. Accumulation will not be performed, and the scale will return to normal weighing mode in one second.

   ※　When the price is zero, accumulation will not be performed.

Accumulation Display

a. When accumulation is performed, press MR key to display accumulation data, the Total Weight Window, Unit Price Window and Total Price Window will show ALL.XX , - - - - - and XXXX in turn, which means total data, no display and total price respectively. Press MR key once again, the Unit Price Window will show ALL.XX and XXXXX in turn, which mean total number of data of this count and unit price of this count. The Total Weight Window and Total Price Window will show XXXX and XXX in turn, which mean weight of this count and total price of this count.

b. Press any Numeric key to input the unit price or press CE key to return to normal weighing mode.

   ※　Display of a single record includes decimals, display of total price does not include decimals (rounded).

Clearing Accumulation

a. Clearing a single record

Press MR key till the Unit Price Window shows ⎡ALL.XX⎤, press MC key to clear this record.

b. Clearing all records

Press MR key till the Total Weight Window, Unit Price Window and Total Price Window show ⎡ALL.XX⎤, ⎡- - - - -⎤ and ⎡XXXXX⎤ respectively, press MC key to clear all accumulation records and the scale will return to normal weighing mode automatically.

Clearing Input Value

To clear the number shown in the Unit Price Window, press MC key and the Unit Price Window will show 0.

『＋』

a. In the price calculation mode:

1. E.g.: the Total Weight Window, Unit Price Window and Total Price Window show ⎡1.000⎤, ⎡10⎤ and ⎡10⎤ respectively.

2. Press ⎡＋⎤ key, the Total Weight Window, Unit Price Window and Total Price Window will show ⎡ALL⎤, ⎡0⎤ and ⎡10⎤ in turn.

3. Input the known price to be added (25), the Total Weight Window, Unit Price Window and Total Price Window will show ⎡ALL⎤, ⎡25⎤ and ⎡35⎤ respectively.

4. Press ZERO key to return to price calculation mode.

b. In the accumulation display mode:

1. Press ⎡＋⎤ key, the Total Weight Window, Unit Price Window and Total Price Window will show ⎡ALL⎤, ⎡0⎤ and XXX in turn.

2. Input the known price to be added (25), the Total Weight Window, Unit Price Window and Total Price Window will show ⎡ALL⎤, ⎡25⎤ and XXX+25 respectively.

3. Press ZERO key to return to accumulation display mode.

c. In non-weighing mode:

1. The Total Weight Window, Unit Price Window and Total Price Window will show **XXXXX**, ⎡0⎤ and ⎡0⎤ in turn.

2. Press $\boxed{+}$ key, the Total Weight Window, Unit Price Window and Total Price Window will show $\boxed{RLL}$, $\boxed{0}$ and $\boxed{0}$ in turn.

3. Input the known price to be added (25), the Total Weight Window, Unit Price Window and Total Price Window will show $\boxed{RLL}$, $\boxed{25}$ and $\boxed{25}$ respectively.

4. Press ZERO key to return to non-weighing mode.

   ※   Input values repeatedly and press $\boxed{+}$ key, the input values will be added continuously.

Unit Switch key

In the normal non-weighing mode without accumulation, press UNIT key, the windows will show $\boxed{Un\,it}$, $\boxed{5EE}$ and $\boxed{XX}$ in turn, which means unit, setting and corresponding number respectively. Press Numeric key to select the unit of corresponding number; the scale will return to normal weighing mode in one second. (The unit selection is price unit selection)

※ Press ZERO key to directly return to weighing mode without switching.

Unit Switch Table		
Numeric Key	Unit in Weight Window	Unit in Unit Price Window
1	Kg	/Kg
2	lb	/lb
3	Kg	/100g

Unit Price Memory

In normal non-weighing mode with unit price memory function off, press PLU key, the Unit Price Window will show $\boxed{PLU}$, press Numeric key to select unit price memory group; when the Unit Price Window shows $\boxed{PLU}$ XX, it indicates the memory group selected, and in one second, the values saved in this memory group will be displayed.

※ In normal non-weighing mode with unit price memory function on, press Numeric key to switch memory groups and press CE key to exit.

※ This function shall be effective after saving unit prices.

【SPECIAL OPERATION】

Unit Price Memory Setting

a. Hold down any Numeric key to turn power on: the Total Weight Window, Unit Price Window and Total Price Window will show ⟦*PLU*⟧, ⟦*UP*⟧ and ⟦*SEt*⟧ in turn.

b. Press Numeric key to select unit price memory group, the Total Weight Window, Unit Price Window and Total Price Window will show ⟦*PLU*⟧, XXXXX and ___ XX in turn, which indicates unit price memory setting, unit price to be memorized and memory group respectively.

c. Press Numeric keys and ⟦ • ⟧ key to input unit price to be memorized.

d. Press ⟦ PLU ⟧ key to confirm, the Total Weight Window, Unit Price Window and Total Price Window will show ⟦*PLU*⟧, ⟦*UP*⟧ and ⟦*SEt*⟧ in turn.

　　　※ Repeat steps b and c until setting is completed.

e. After setting is completed, press ZERO key to return to normal weighing mode.

Initial Unit Selection

a. Power on while holding down MC key: the Total Weight Window, Unit Price Window and Total Price Window will show ⟦*SEt*⟧, ⟦   *0*⟧ and ⟦___⟧ in turn.

b. After pressing ⟦ 1 ⟧ ⟦ 1 ⟧ ⟦ 3 ⟧ ⟦ 2 ⟧ keys: the Total Weight Window, Unit Price Window and Total Price Window will show ⟦*SEt*⟧, ⟦*1132*⟧ and ⟦___⟧ in turn.

c. After pressing MC key: the Total Weight Window, Unit Price Window and Total Price Window will show ⟦*Unit*⟧, ⟦*SEt*⟧ and ___ XX in turn.

d. Press ⟦ 1 ⟧ key to switch units (the unit selection is price unit selection): Depending on the region:

　　　Model for the Mainland: kg　500g　100g

　　　Model for export: kg　lb　100g

　　　Model for Taiwan: kg　tg　100g

　　　Model for Hong Kong: kg　lb　100g　hkj

e. After pressing MC key: the Total Weight Window, Unit Price Window and Total Price Window will show ⟦*SEt*⟧, ⟦   *0*⟧ and ⟦___⟧ in turn.

f. Press ZERO key to return to normal weighing mode.

Parameter Function Setting during Operation

a. In normal weighing mode, hold down MC key for 3 seconds to enter into parameter setting; the Total Weight Window, Unit Price Window and Total Price Window will show 〔SEt〕, 〔SCALE〕 and 〔FUnC〕 in turn.

b. Press 0 key: LCD will show 〔SEt0〕, 〔LiGH〕 and 〔onoFF〕 in turn. Backlight function setting: on / oFF / onoFF, press 0 key to set. on: backlight on / oFF: backlight off / onoFF: auto backlight.

c. Press 3 key: the Total Weight Window, Unit Price Window and Total Price Window will show 〔SEt3〕, 〔oFF〕 and 〔oFF〕 respectively. Auto power-off time setting: off / 5 / 10 / 30 / 60, press 3 key to set. off: cancel auto power-off /auto power-off in 5 minutes / auto power-off in 10 minutes /auto power-off in 30 minutes/auto power-off in 60 minutes

d. Press ZERO key to return to normal weighing mode.

【PARAMETER SETTING】

Parameter Setting

Turn power on by holding down ZERO key to enter into parameter setting; the Total Weight Window, Unit Price Window and Total Price Window will show 〔SEt〕, 〔SCALE〕 and 〔FUnC〕 in turn. Press ZERO key to return to normal weighing mode.

Parameter Values

Function	Display	Operating Instructions
Backlight	on / oFF / onoFF	Press 0 key: the Total Weight Window, Unit Price Window and Total Price Window will show 〔SEt0〕, 〔LiGH〕 and 〔onoFF〕 in turn; press 0 key to set.
Filter	1 / 2 / 4 / 8	Press 2 key: the Total Weight Window, Unit Price Window and Total Price Window will show 〔SEt2〕, 〔FiLt〕 and 〔1〕 in turn; press 2 key to set. ※ The bigger the number is, the higher filter performance is and the slower the display speed is.
Auto	off / 5 / 10 / 30 / 60	Press 3 key: the Total Weight Window, Unit Price Window and Total Price

power-off		Window will show 𝖲𝖤𝖳3, 𝗈𝖥𝖥 and 𝗈𝖥𝖥 in turn; press 3 key to set.
Baud rate	2400bps / 4800bps / 9600bps	Press 5 key: the Total Weight Window, Unit Price Window and Total Price Window will show 𝖲𝖤𝖳5, 𝖻𝖠𝗎𝖽 and 9600 in turn; press 5 key to set.
Data output mode	Co / St	Press 9 key: the Total Weight Window, Unit Price Window and Total Price Window will show 𝖲𝖤𝖳9, 𝖯𝗋𝗍.𝖲𝖤 and 𝖯𝖢 in turn; press 9 key to set. ※ When output mode is St, input unit price before placing weight and the price will then be output normally; when output mode is Co, the display speed is slower.

【APPENDICES】

Product Type Specifications

Max. Cap / Resolution	Model							
	JPP-3K		JPP-6K		JPP-15K		JPP-30K	
	3kg	3kg	6kg	6kg	15kg	15kg	30kg	30kg
DIV.(kg)	0.0005	0.001	0.001	0.002	0.002	0.005	0.005	0.010
DIV.(lb)	0.001	0.002	0.002	0.005	0.005	0.010	0.01	0.02
DIV.(tg, tl)	0.00.01	0.00.02	00.00.1	00.00.1	00.00.1	00.00.2	00.00.2	00.00.2
DIV.(hkj, hkl)	0.00.01	0.00.02	00.00.1	00.00.1	00.00.1	00.00.2	00.00.2	00.00.2
Max. Cap / Resolution	Model							
	JPP-60K		JPP-150K		JPP-300K		JPP-600K	
	60K	60K	150K	150K	300K	300K	600K	600K
DIV.(kg)	0.010	0.020	0.02	0.05	0.05	0.10	0.10	0.20
DIV.(lb)	0.02lb	0.05lb	0.05lb	0.10lb	0.10lb	0.20lb	0.2lb	0.5lb
DIV. (tg, tl)	00.01	00.01	00.01	00.01	00.02	00.02		
DIV.(tg)							0. 2	0.5
DIV. (hkj, hkl)	00.01	00.01	00.01	00.01	00.02	00.02		
DIV.(hkj)							0.2	0.5
Internal Resolution	Over 60000 (SPAN)							
Display Spec.	LCD module requires backlight, 5, 5, 5 Digits.（EL）							
Dimensions (mm)	666 x 430 x 910							
Power Supply	AC110V/220V　incl. 6V4A lead-acid battery							
Resolution	1/6000, 1/3000, 1/7500							
Weighing Unit	Kg, Lb, tg, hkj							
Operating Temperature	-10°C~40°C							
Option	RS232							

List of Error Messages

In case of	Error Message	Troubleshooting
Power on	Err2,	Initial zero point over 30%.
Power on	Err3,	Check if there is A/D malfunction or LOAD CELL malfunction.
Power on	Err4,	Switch power off and power on again; if the error message appears again, switch power off and perform calibration again.

Power on	Battery symbol shown	Charge the battery.
Normal weighing mode	Err5	Checking if the weighing object is over the max. capacity +9e.

Error Message	Problem
Err2	Check if there is any object on weighing pan, which may cause interference.
Err3	Over or below A/D resolution range
Err4	EEPROM Chksum error
Err5	Overload (max. capacity +9e)
ACC.ov	Accumulation over 10 data
over	Display value over display range
Battery symbol	Low battery

RS232 Output

RS232 Output Format

RS232 transmission format parameters are as follows:

Baud Rate: 2400bps / 4800bps / 9600bps

Data Bit: 8

Stop Bit: 1

Parity: NONE

Code: ASCII

Bit Format ：

	LSB							MSB		
	0	1	2	3	4	5	6	7	8	
Start Bit									Parity	Stop Bit
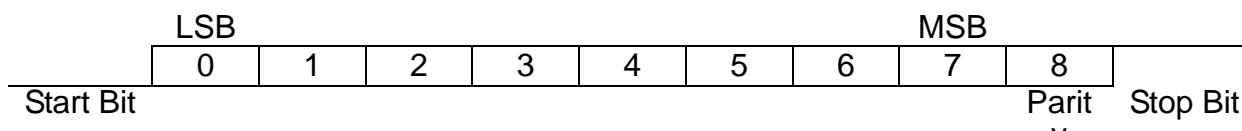
Data Format

1. kg

G/N	.	W	.	:							k	g		CR	LF

Weight

U	.	P	.	:						$	/	k	g				CR	LF

Unit price

P	r	i	c	e	:						$							CR	LF

Price

Example:

G.W.:5.000 kg

N.W.:4.000 kg

U.P.:100 $/kg

Price:400 $

2. lb

G/N	.	W	.	:								l	b		CR	LF

Weight

U	.	P	.	:							$	/	l	b				CR	LF

Unit price

P	r	i	c	e	:							$						CR	LF

Price

3. tg

G/N	.	W	.	:							G	-	t	l	.	T	CR	LF

Weight

U	.	P	.	:							$	/	G	-	t	l	.	T	CR	LF

Unit price

P	r	i	c	e	:							$						CR	LF

Price

4. hkj

G/N	.	W	.	:							G	-	t	l	.	H	CR	LF

Weight

U	.	P	.	:							$	/	G	-	t	l	.	H	CR	LF

Unit price

P	r	i	c	e	:							$						CR	LF

Price

5. 100g

G/N	.	W	.	:							k	g		CR	LF

Weight

U	.	P	.	:							$	/	1	0	0	g		CR	LF

Unit price

P	r	i	c	e	:							$						CR	LF

Price

6. 500g

G/N	.	W	.	:							k	g		CR	LF

Weight

U	.	P	.	:							$	/	5	0	0	g		CR	LF

Unit price

P	r	i	c	e	:							$						CR	LF

Price