1、INTRODUCTION：---

Thank you for purchasing a Hengx high resolution electronic scale. This scale enables you to measure the quality and weight. The scale is easy to operate, precise, stable and with fast display reaction. It is applicable in the electronic, hardware, plastic, medicine, textile and various other industries. It is useful for packaging, inventory and various production and quality control cases.

2、ASSEMBLE：---
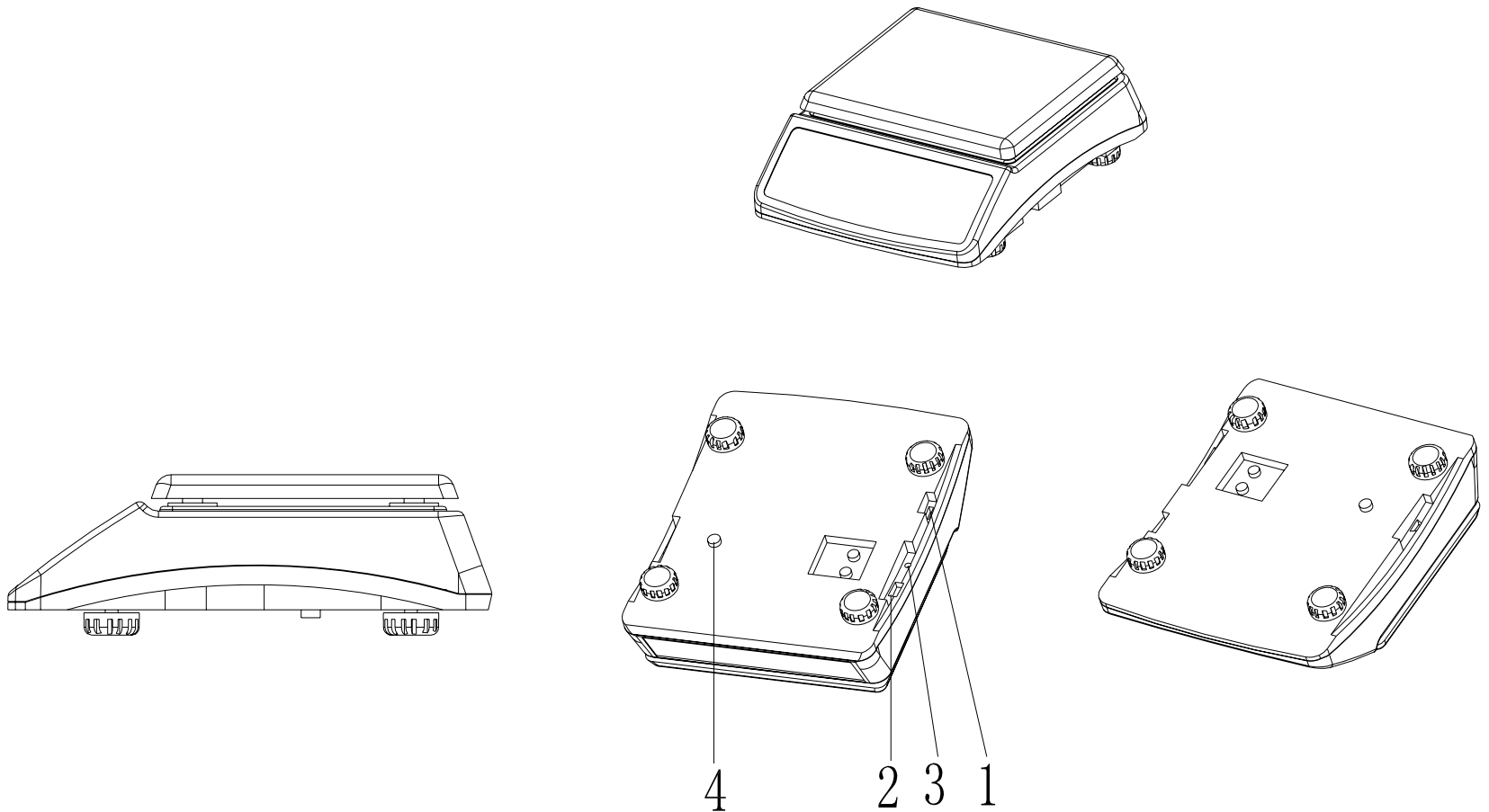
3、ILLUSTRATION：---

- Assembly(please follow the sequence)
- Release and remove the protection screw【4】to resist the bottom housing
- Remarks：assembly the protection device【4】before transportation the scale. This is for protecting the scale.
- 【1】power switch
- 【2】RS-232 interface
- 【3】DC power socket
- 【4】shipping protection screw

4、Precaution：---

1. full charge the battery after unpacking the scale

2. *recharge the battery*：*when battery symbol appears on the LCD display, please plug in the power lord to charge the battery. The indicator of charge will light up in red. When it becomes green means charge completed.(it takes about 8 hours to full recharge the battery)*

3. install the equipment on a level and stable surface.

4. do not install the equipment near the air condition or a vibrating machine.

5. please in the temperature of   0℃～40℃ , prevent from rapid temperature changes

6. independent AC outlet for this equipment is recommended, check the voltage before plug in.

7. warm up the equipment for 15 minutes before use

5、KEYPAD : ---
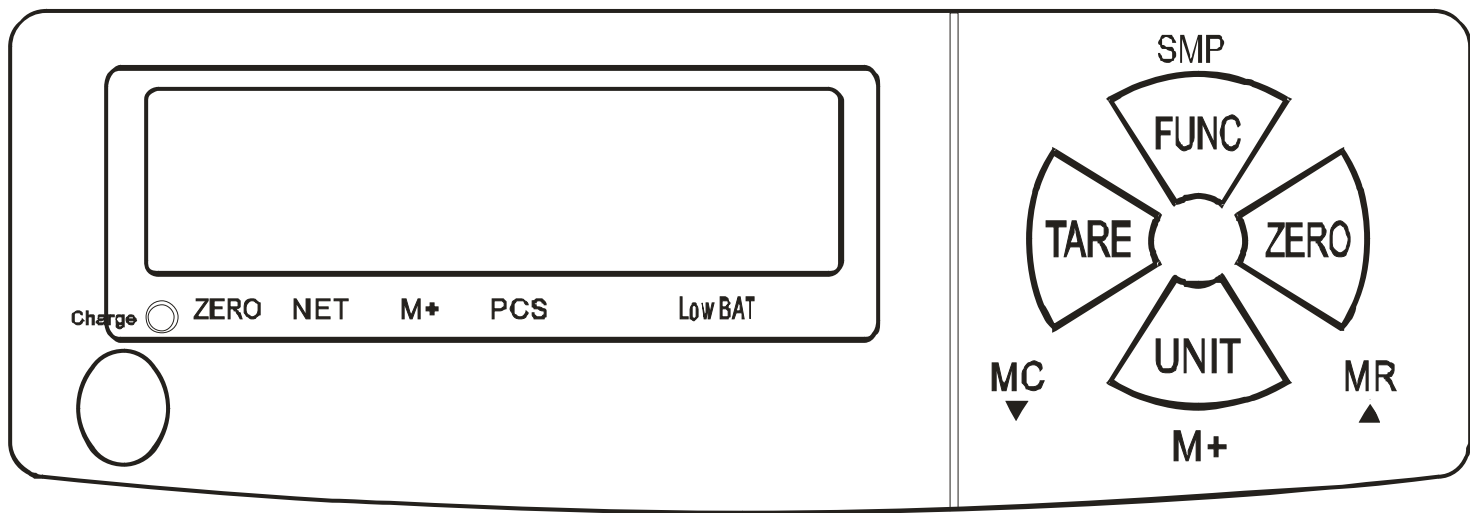
1）

A、In the weighing mode: press this key, it only can come to zero when in ±2% of max weighing capacity

In the tare mode, press this key can cancel tare and come back to zero, when tare is less than ±2% of max weighing

capacity. When the tare is more than ±2% of max weighing, press this key can cancel tare, but could not come to zero.

B、In the weighing mode, press **FUNC** and then press MR ， is for accumulation display.

C、in mode of PCS, press **FUNC** and then press▲， enter sample quantity selecting

2）

A、It can only tare when in the stable weighing mode

Tare the weight of load on pan. 1

In the tare mode, press this key again to cancel tare.

B、in the weighing mode, press **FUNC** and press **MC** ， enter accumulation eliminate function

C、in the mode of PCS press **FUNC** and press ▼， enter sample quantity selecting

3）

A、in the weighing mode, press this key and choose kg、g、lb、oz、tlh、tlj、tlt、pcs in turn.

B、in the weighing mode, press **FUNC** and press **M+** ， to do weight accumulation

C、in the PCS mode, press **FUNC** and press **SMP** ， to do the sample function

4）

function conversion

6、OPERATION：---
6.1 SWITCH ON：---

KEYPAD	FUNCTION
ON/OFF	Shows 9、8、…0、version No.、type and enter into normal weighing mode
ON/OFF + ZERO	Enter parameter setting
ON/OFF + TARE	Enter linearity calibration
ON/OFF + FUNC	Enter single point calibration
ON/OFF + ZERO + TARE	Enter initial setting

6.2 ZERO：---

press ZERO to zero

✧ range：when less or equal to ±2% of capacity

✧ in the tare mode, press this key to cancel tare

✧ press this key to cancel tare and come to zero

6.3 tare：---

in the stable mode, press TARE to tare

✧ Cann't work below zero(minus value) or above max capacity.

✧ After tare, display NET

✧ In the tare mode, press this key to cancel tare. Display zero, and stable symbol

6.4 units conversion ---

press ⟨UNIT⟩ : kg、g、lb、oz、tlh、tlt 、tlj and pcs conversion in turn

✦ Units conversion:
- ■ 1 lb = 453.59237 g
- ■ 1 oz = 28.349523125 g

6.5 simple counting function ---

1) in the PCS mode, press ⟨FUNC⟩ to enter into quantity sample , shows XX pcs

2) place load on the pan

3）press▲ or ▼， shows S 25pcs

4）press▲ or ▼ constantly，choose 25 50、 100

5）press SMP ， start counting function

6.6 accumulation ---

1）in the weighing mode，press ⟨FUNC⟩ to enter accumulation function

2) press MR ， do the accumulation function， shows ACC.XX，1sec. later back to normal weighing mode

3) if accumulation with the same goods, must take away the goods first and after back to zero, place the goods on the pan.

✦ Could accumulation 10 times，if over, it will show：ACC.OV，1sec. later back to normal weighing mode

6.7 accumulation display ---

1）press ⟨FUNC⟩ to enter accumulation function

2) press MR ，display total accumulation vaule，LCD displays ACC.XX，1sec. Later display XXXXXX(accumulation value)，press ⟨FUNC⟩ back to normal weighing mode

3)total accumulation value over display range will show：OVER，1sec. Later back to normal weighing mode

6.8 accumulation eliminate ---

1）press ⟨FUNC⟩ enter into accumulation function

2) press MC ， to do accumulation eliminate function，LCD shows ACC.00， 1sec. Later display 0(accumulation value)，press ⟨FUNC⟩ back to normal weighing mode

when accumulation value over display range, it will show：OVER，1sec. Later back to normal weighing mode

7、OPERATION：---

7.1 linearity calibration function---

STEPS	ILLUMINATE
1	**TARE** press to switch on the scale，LCD shows [CAL-L]
2	**TARE** press ，LCD shows [ON 0] to calibration zero point
3	**TARE** press ，waiting for LCD show [ON 1]，place 1/3 of load
4	**TARE** press ，waiting for LCD show [ON 2]，place 2/3 of load
5	**TARE** press ，waiting for LCD show[ON 3]，place full load
6	**TARE** press[，waiting for LCD show [PASS] finish calibration
7	**TARE** press back to normal weighing mode

7.2 OFFSET: ---

STEPS	ILLUMINATE
1	**ZERO** press to switch on the scale, it shows [FUNSET]
2	**ZERO** press it shows [K X]
3	**ZERO** press again and it shows [XXXXXX]
4	**ZERO** press back to normal weighing mode

7.3 SINGLE POINT CALIBRATION: ---

STEPS	ILLUMINATE
1	Press SMP to switch on the scale and LCD shows [ST 0]
2	**FUNC** press it shows [ST 11]
3	**UNIT** press , waiting for LCD show [ON 0] and calibration the zero point
4	Waiting for LCD shows [CAL-P]
5	Press SMP，choose the calibration point and place the equivalent weight
6	**UNIT** press to start calibration and LCD shows [CAP]
7	Waiting for LCD shows [PASS],finish calibration
8	**ZERO** press back to normal weighing mode

7.4 TESTING: ---

STEPS	ILLUMINATE
1	**ZERO** press to switch on and LCD shows [FUNSET]
2	**ZERO** press again and LCD shows [K X]
3	**FUNC** press , LCD shows kg
4	**UNIT** press LCD shows g
5	**TARE** press and LCD shows lb
6	**ZERO** press back to normal weighing mode

7.5 FUNCTION SETTING: --- (underline words are the initial setting)

STEPS	ILLUMINATE
1.	ZERO press ZERO to switch on the scale and start function setting, LCD shows [FUNSET]
2.	UNIT LCD shows [0 ONOFF]in turn，backlight setting: ON/OFF/<u>ONOFF</u>, press UNIT to setting in turn
3.	UNIT LCD shows [1 DE]in turn，resolution setting: DE/6000 or 7500/15000，press UNIT to setting in turn
4.	UNIT LCD shows [2 -1-]in turn，filter setting: 1、<u>2</u>、4、8，press UNIT to setting in turn
5.	UNIT LCD shows [3 D0] in turn，zero band setting: D0/<u>D1</u>/D2/D3/D4/D5, press UNIT to setting in tu
6.	UNIT LCD shows [4 9600]in turn，band rate setting: 2400/4800/<u>9600</u>, press UNIT to setting in turn
7.	UNIT LCD shows [9 PRT.CO]in turn，print mode setting: <u>PRT.CO</u>/PRT.ST, press UNIT to setting in turn
8.	UNIT FUNC LCD shows [E XX]in turn，units setting, press UNIT to select in turn，press FUNC : <u>ON</u>/OFF to setting in turn
9.	UNIT LCD shows [F INIT]in turn, initial unit setting，press UNIT to setting in turn
10.	ZERO press ZERO , back to normal weighing mode

8、ERROR MESSAGE:

1）ERR3：   over analysis area on A/D

2）ERR5：   over load(max capacity +9e)

3）ERR6：   over 10% of display weight when calibration

4）ACC.OV：over 10 times when accumulation

5）OVER：   total accumulation over display range

6）Battery symbol：low battery

7）LOBAT：   low voltage

9、communicate format：

RS-232 output format

Baud Rate   : 2400、4800、9600

Data Bit   :8

P7

Parity   : N(None)

Stop Bit   : 1

Code   :ASCII

Data Format:

         G=gross weight   N=net weight

1、Kg

G/N	.	W	.	:	+/-									k	g	LF	CR

e.g.

G.W.:+2.2352kg

N.W.:+1.2352kg

2、g

G/N	.	W	.	:	+/-									g	LF	CR

e.g.

G.W.:+2235.2g

N.W.:+1235.2g

3、lb

G/N	.	W	.	:	+/-									l	B	LF	CR

e.g.

G.W.:+4.928lb

N.W.:+4.928lb

4、oz

G/N	.	W	.	:	+/-									o	z	LF	CR

e.g.

G.W.:+78.844oz

N.W.:+78.844oz

5、Pcs

T	o	t	a	l	:	+/-						p	c	s		LF	CR

e.g.

Total:+645pcs