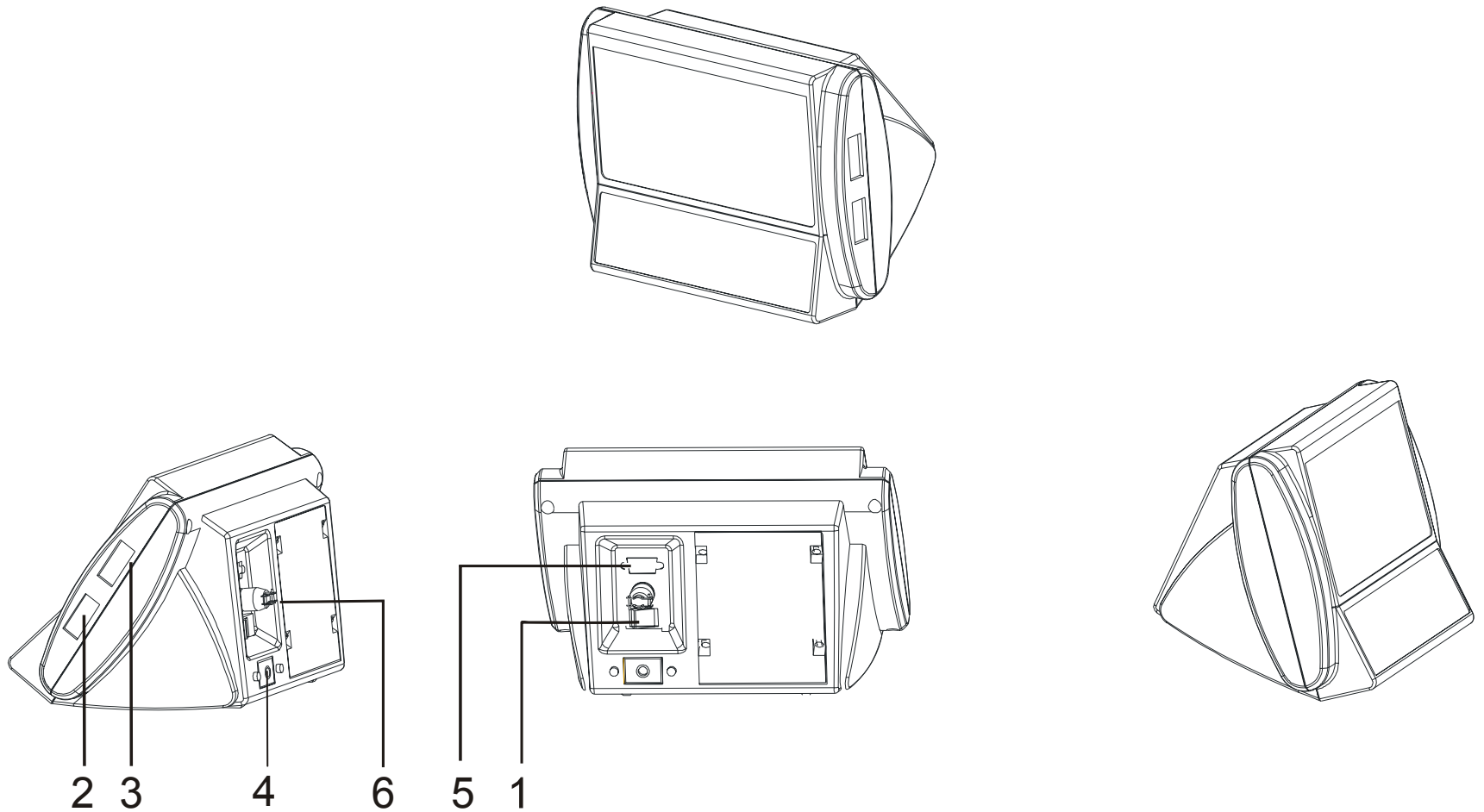


1. INTRODUCTION	1
2. ASSEMBLY	1
3. INSTALLATION	1
4. PRECAUTION	1
5. FEATURES	2
6. USEABLE UNITS	2
7. PANEL AND KEYSTROKE DEFINITION	2
7. 1 ENTER FUNCTION SETTING	4
7. 2 PARAMETER SETTING	4
BACKLIGHT SETTING	4
RESOLUTION SETTING	4
FILTER SETTING	5
ZERO BAND	5
BAND RATE SETTING	5
BUZZER SETTING:	5
CHECK-WEIGHING MODE SETTING:	6
CHECK-WEIGHING STYLE SETTING:	6
CHECK-WEIGHING MEMORY SETTING	6
PRINT MODE SETTING	6
PRINTER SETTING	6
AUTO TARE SETTING	7
Counting Internal resolution:	7
PRINTING CONTENT SETTING 1.2.	7
8. KEYPAD:	8
ZERO:	8
TARE:	8
PRE-TARE:	9
0~9 AND ●:	9
IMPUT ELIMINATE:	9
UNIT WEIGHING IMPUT:	9
SAMPLE:	10
RESAMPLE:	10
PRINT:	10
RETURN:	11
ACCUMULATION:	11
Accumulation display:	12
Accumulation clear	13
Unit weight warning:	14
UNIT WEIGHT MEMORY:	14
CHECK-WEIGHTING:	15
AUTO TARE:	15
9. UNIT SWITCH	16
10. CALIBRATION OPERATION	17
10.1 linearity (six point calibration)	17
10.2 single point calibration	19
11. INTERNAL COUNTDISPLAY, TESTING	20
12. ERROR MESSAGE:	20
13. trouble shooting	20
14. specification:	21
(normal type)	21
(high resolution and filter type)	21
15. RS-232 output format:	22

1、 INTRODUCTION: ---

Thank you for your purchase of 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、 ASSEMBLY: ---



3、 INSTALLATION: ---

- Power switch 【1】
- RS-232(single and dual) output 【2】【3】
- DC power connector 【4】
- 【5】 RELAY check-weighing (output)
- 【6】 LOAD-CELL interface

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 cord to charge the battery. The indicator of charge will light up in red. When it becomes green means charge completed(it takes about 8hours 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、 FEATURES: ---

1. **p1** Load Cell have OIML approved, R60 test,
 2. the microprocessor in this scale features:
 - A. automatic zero point tracking function
 - B. tare, pre-tare and auto tare function
 - C. ACAI function is applicable for the accuracy of unit weight
 - D. resample function
 - E. weight HI/LOW setting
 - F. counting HI/LOW setting
 - G. 10 sets unit weight memory
-

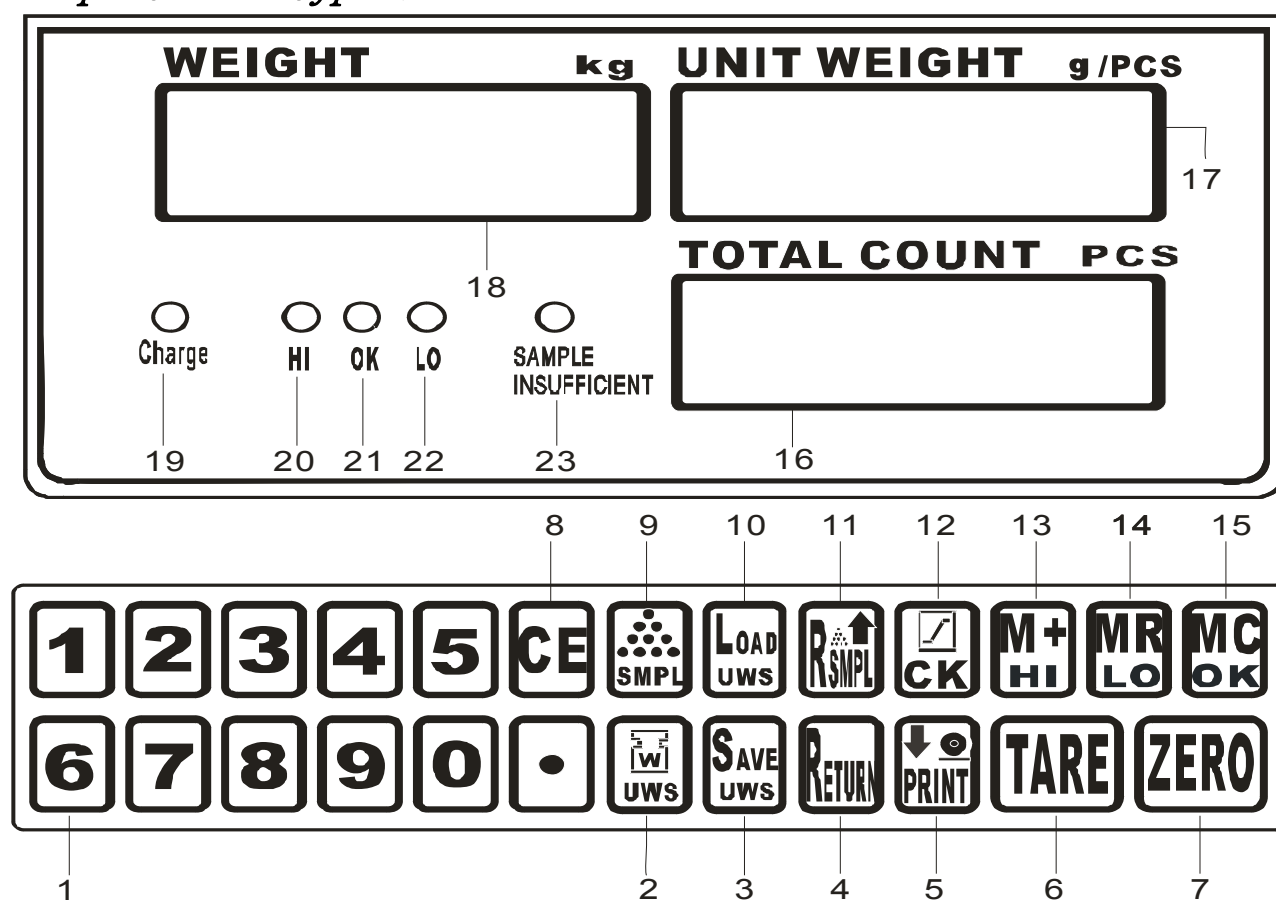
- H. MAX accumulation (10sets)
- I. Accumulation figures print
- J. BACKLIGHT AUTO ON
- K. 2 sets of RS-232 (option)
- L. Relay output (option)
- M. Mini printer (option)










1. clear LCD display, with 22mm digits
2. backlight function
3. over load and transportation protection
4. membrane keypad, easy operation and nice water-resistant function
5. stainless steel weighing pan









6. available units: ---


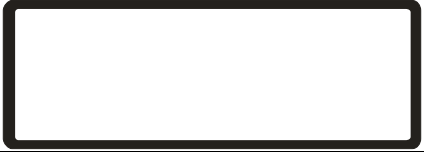






1. kg
2. g
3. lb
4. oz

7. panel and keypad: ---












keypad				P2
1	 ~  & 	Used for inputting number data		
2		Input unit weight then press this key	3	 Press to enter unit weight memory mode
4		Return	5	 For print (↓ used to check in unit weight warning and accumulation memory function)
6		When some weight on the pan, Press "tare" to tare; if pan is empty, input ***** , press "tare" to pre-tare	7	 To come into zero





8		To clear the input data	9		Put samples onto the pan, and input the number, then press “sample”
10		Press to enter unit weight warning mode	11		For resample ↑ (used to check in unit weight warning and accumulation memory function)
12		Press to enter weight, quantity and HI/LO/OK check-weighing setting	13		Press “accumulation” to accumulate (totally 10 times) (HI used for check-weighing)
14		Press this key to enter accumulation display function, (LO used for check-weighing)	15		Press this key to clear accumulation value (OK used for check-weighing)

Panel illuminate					
16	TOTAL COUNT PCS 		Display unit weight or average weight		
17	UNIT WEIGHT g/PCS 		Display weight		
18	WEIGHT kg 		19	 Charge	Recharge instruction
20	 HI	Check-weighing bigger than instruction	21	 OK	Check-weighing equals with instruction
22	 LO	Check-weighing smaller than instruction	23	 SAMPLE INSUFFICIENT	When the amount of sample is smaller than 10pcs or when unit weight < 1d






7. 1 FUNCTION SETTING: ---

P3		KEYPAD	FUNCTION
			Parameter setting
	NO/OFF +		display COUNT (OFFSET)
	NO/OFF +	 + 	weighing mode
	NO/OFF +	 +  + 	Linearity calibration
	NO/OFF +		Single point calibration, units switch (lb、kg、g、oz)
	NO/OFF +		







7. 2 PARAMETER SETTING: ---(lineation words are the initiatory value)

OPERATION	LCD display
<p>press  to switch on:</p>	<p>WEIGHT  UNIT WEIGHT  TOTAL COUNT </p>

Backlight setting: --





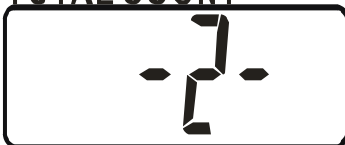
<p>press  : • on / off / auto 2 press  to change the setting</p>	<p>WEIGHT  UNIT WEIGHT  TOTAL COUNT </p>
---	---

Resolution setting: --






<p>press  : • 1 (6000/7500triple range resolution) 2 (3000 or 3750) 3 (6000 or 7500) 4 (15000). press  to select in turn in triple range resolution,press  back to low division</p>	<p>WEIGHT  UNIT WEIGHT  TOTAL COUNT </p>
--	--

Filter setting: --

P4

<p>press  : • 1 / 2 / 4 / 8 press  to select in turn</p>	<p>WEIGHT  UNIT WEIGHT  TOTAL COUNT </p>
--	--

Zero band: --

<p>press  : • d0 / d1 / d2 / d3 / d4 / d5 the bigger value setting, the bigger value display press  to select in turn</p>	<p>WEIGHT  UNIT WEIGHT  TOTAL COUNT </p>
--	--

Band rate setting: --

<p>press 4 :</p> <ul style="list-style-type: none"> band rate setting: 9600 	<table border="1"> <tr> <td>WEIGHT</td> <td>UNIT WEIGHT</td> </tr> <tr> <td>Func4</td> <td>BAUD</td> </tr> <tr> <td></td> <td>TOTAL COUNT</td> </tr> <tr> <td></td> <td>9600</td> </tr> </table>	WEIGHT	UNIT WEIGHT	Func4	BAUD		TOTAL COUNT		9600
WEIGHT	UNIT WEIGHT								
Func4	BAUD								
	TOTAL COUNT								
	9600								

buzzer setting: --

<p>press 5 :</p> <ul style="list-style-type: none"> on / oFF <p>press 5 to select in turn.</p>	<table border="1"> <tr> <td>WEIGHT</td> <td>UNIT WEIGHT</td> </tr> <tr> <td>Func5</td> <td>[buz]</td> </tr> <tr> <td></td> <td>TOTAL COUNT</td> </tr> <tr> <td></td> <td>no</td> </tr> </table>	WEIGHT	UNIT WEIGHT	Func5	[buz]		TOTAL COUNT		no
WEIGHT	UNIT WEIGHT								
Func5	[buz]								
	TOTAL COUNT								
	no								

Check-weighing mode setting:--

<p>P5 press 6 :</p> <ul style="list-style-type: none"> HI/ Lo/ In / un/ 3b/ oK / oFF <p>press 6 to select in turn</p>	<table border="1"> <tr> <td>WEIGHT</td> <td>UNIT WEIGHT</td> </tr> <tr> <td>Func6</td> <td>beep</td> </tr> <tr> <td></td> <td>TOTAL COUNT</td> </tr> <tr> <td></td> <td>off</td> </tr> </table>	WEIGHT	UNIT WEIGHT	Func6	beep		TOTAL COUNT		off
WEIGHT	UNIT WEIGHT								
Func6	beep								
	TOTAL COUNT								
	off								




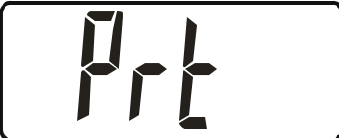


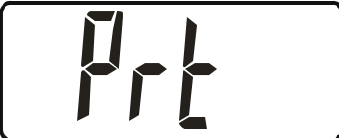


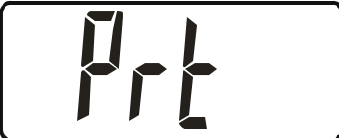

Check-weighing style setting: --

<p>press 7 :</p> <ul style="list-style-type: none"> Weight/ PCS <p>press 7 to select in turn</p>	<table border="1"> <tr> <td>WEIGHT</td> <td>UNIT WEIGHT</td> </tr> <tr> <td>Func7</td> <td>[h-5</td> </tr> <tr> <td></td> <td>TOTAL COUNT</td> </tr> <tr> <td></td> <td>PCS</td> </tr> </table>	WEIGHT	UNIT WEIGHT	Func7	[h-5		TOTAL COUNT		PCS
WEIGHT	UNIT WEIGHT								
Func7	[h-5								
	TOTAL COUNT								
	PCS								

Check-weighing memory setting: --

<p>press 8 :</p> <ul style="list-style-type: none"> M.On / M.oFF <p>press 8 to select in turn (check-weighing and counting each 1 set)</p>	<table border="1"> <tr> <td>WEIGHT</td> <td>UNIT WEIGHT</td> </tr> <tr> <td>Func8</td> <td>[h5Au</td> </tr> <tr> <td></td> <td>TOTAL COUNT</td> </tr> <tr> <td></td> <td>n-off</td> </tr> </table>	WEIGHT	UNIT WEIGHT	Func8	[h5Au		TOTAL COUNT		n-off
WEIGHT	UNIT WEIGHT								
Func8	[h5Au								
	TOTAL COUNT								
	n-off								

Printing mode setting: --

<p>press  :</p> <ul style="list-style-type: none"> • <u>Prt.Pr / Prt.Co/Prt.St-data</u> <p>press  to select in turn</p>	<table border="1"> <tr> <td data-bbox="1058 170 1406 362">WEIGHT </td> <td data-bbox="1420 170 1767 362">UNIT WEIGHT </td> </tr> <tr> <td colspan="2" data-bbox="1420 370 1767 562">TOTAL COUNT </td> </tr> </table>	WEIGHT 	UNIT WEIGHT 	TOTAL COUNT 	
WEIGHT 	UNIT WEIGHT 				
TOTAL COUNT 					









Printer setting: --

<p>press  :</p> <ul style="list-style-type: none"> • <u>PC / SH / TDP</u> <p>press  to select in turn</p>	<table border="1"> <tr> <td data-bbox="1058 620 1406 812">WEIGHT </td> <td data-bbox="1420 620 1767 812">UNIT WEIGHT </td> </tr> <tr> <td colspan="2" data-bbox="1420 820 1767 1012">TOTAL COUNT </td> </tr> </table>	WEIGHT 	UNIT WEIGHT 	TOTAL COUNT 	
WEIGHT 	UNIT WEIGHT 				
TOTAL COUNT 					

















Auto- tare setting: --

<p>press  :</p> <ul style="list-style-type: none"> • <u>YES / NO</u> <p>press  to select in turn</p>	<table border="1"> <tr> <td data-bbox="1058 1171 1406 1363">WEIGHT </td> <td data-bbox="1420 1171 1819 1363">UNIT WEIGHT  P6</td> </tr> <tr> <td colspan="2" data-bbox="1420 1372 1767 1564">TOTAL COUNT </td> </tr> </table>	WEIGHT 	UNIT WEIGHT  P6	TOTAL COUNT 	
WEIGHT 	UNIT WEIGHT  P6				
TOTAL COUNT 					















internal resolution setting: --











<p>press  :</p> <ul style="list-style-type: none"> • <u>d / e</u> <p>press  to select in turn</p>	<table border="1"> <tr> <td data-bbox="1058 1613 1406 1805">WEIGHT </td> <td data-bbox="1420 1613 1767 1805">UNIT WEIGHT </td> </tr> <tr> <td colspan="2" data-bbox="1420 1813 1767 2005">TOTAL COUNT </td> </tr> </table>	WEIGHT 	UNIT WEIGHT 	TOTAL COUNT 	
WEIGHT 	UNIT WEIGHT 				
TOTAL COUNT 					

Printing content setting: --

<p>press  :</p> <ul style="list-style-type: none"> • <u>Pr</u> (print) / nP (not print) <p>press  or  or  to select in turn</p> <p>press  : whether to print total weight</p> <p>press  : whether to print unit weight</p> <p>press  : whether to print total quantities</p>	<table border="1"> <tr> <td>WEIGHT</td> <td>UNIT WEIGHT</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td>TOTAL COUNT</td> </tr> <tr> <td></td> <td></td> </tr> </table>	WEIGHT	UNIT WEIGHT				TOTAL COUNT		
WEIGHT	UNIT WEIGHT								
									
	TOTAL COUNT								
									








Printing content setting1.2: --

<p>press  :</p> <ul style="list-style-type: none"> • <u>Pr</u> (print) / <u>nP</u> (not print) <p>press  or  to select in turn</p> <p>press  : whether to print total accumulation value</p> <p>press  : whether to print single accumulation value</p>	<table border="1"> <tr> <td>WEIGHT</td> <td>UNIT WEIGHT</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td>TOTAL COUNT</td> </tr> <tr> <td></td> <td></td> </tr> </table>	WEIGHT	UNIT WEIGHT				TOTAL COUNT		
WEIGHT	UNIT WEIGHT								
									
	TOTAL COUNT								
									








<p>P7</p> <p>press  : back to normal weighing mode</p>	<table border="1"> <tr> <td>WEIGHT</td> <td>UNIT WEIGHT</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td>TOTAL COUNT</td> </tr> <tr> <td></td> <td></td> </tr> </table>	WEIGHT	UNIT WEIGHT				TOTAL COUNT		
WEIGHT	UNIT WEIGHT								
									
	TOTAL COUNT								
									

8. **KEYPAD:** ---







ZERO: --

<p><2% max</p>	<p>WEIGHT  UNIT WEIGHT  TOTAL COUNT </p>
<ul style="list-style-type: none"> press  : 	<p>WEIGHT  UNIT WEIGHT  TOTAL COUNT </p>












tare: --

<p>Any number</p>	<p>WEIGHT  UNIT WEIGHT  TOTAL COUNT </p>
<ul style="list-style-type: none"> press  : tare: can't operate below zero or above max capacity 	<p>WEIGHT  UNIT WEIGHT  TOTAL COUNT </p>













Pre-tare: --

<ul style="list-style-type: none"> press  ~  and  to load the number 	<p>WEIGHT  UNIT WEIGHT  TOTAL COUNT </p>
--	---











Pre-tare: --

<ul style="list-style-type: none"> press  : condition: zero symbol display(press  again to cancel pre-tare) 	<table border="1"> <tr> <td>WEIGHT</td> <td>UNIT WEIGHT</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td>TOTAL COUNT</td> </tr> <tr> <td></td> <td></td> </tr> </table>	WEIGHT	UNIT WEIGHT				TOTAL COUNT		
WEIGHT	UNIT WEIGHT								
									
	TOTAL COUNT								
									






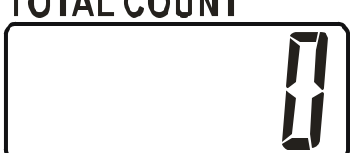


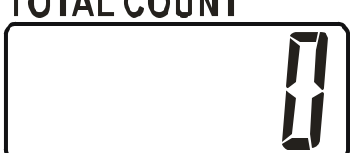


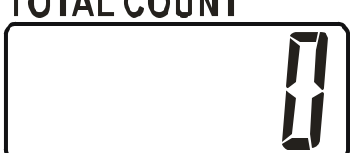
0~9 and ●: --











<ul style="list-style-type: none">  ~  and  to load the pre-tare value and unit weight 	<table border="1"> <tr> <td>WEIGHT</td> <td>UNIT WEIGHT</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td>TOTAL COUNT</td> </tr> <tr> <td></td> <td></td> </tr> </table>	WEIGHT	UNIT WEIGHT				TOTAL COUNT		
WEIGHT	UNIT WEIGHT								
									
	TOTAL COUNT								
									

Input eliminate: --










<ul style="list-style-type: none"> press  in the unit weight loading, sample, check-weighing and unit weighing memory mode 	<table border="1"> <tr> <td>WEIGHT</td> <td>UNIT WEIGHT</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td>TOTAL COUNT</td> </tr> <tr> <td></td> <td></td> </tr> </table>	WEIGHT	UNIT WEIGHT				TOTAL COUNT		
WEIGHT	UNIT WEIGHT								
									
	TOTAL COUNT								
									

Unit weight Input: --

<ul style="list-style-type: none"> press  ~  and  	<table border="1"> <tr> <td>WEIGHT</td> <td>UNIT WEIGHT</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td>TOTAL COUNT</td> </tr> <tr> <td></td> <td></td> </tr> </table>	WEIGHT	UNIT WEIGHT				TOTAL COUNT		
WEIGHT	UNIT WEIGHT								
									
	TOTAL COUNT								
									

<p>P9</p> <ul style="list-style-type: none"> press  load unit weight condition of loading unit weight: unit weight $\geq e$, or show, Sample Insufficient. 	<table border="1"> <tr> <td>WEIGHT</td> <td>UNIT WEIGHT</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td>TOTAL COUNT</td> </tr> <tr> <td></td> <td></td> </tr> </table>	WEIGHT	UNIT WEIGHT				TOTAL COUNT		
WEIGHT	UNIT WEIGHT								
									
	TOTAL COUNT								
									

sample: --

<ul style="list-style-type: none"> press  ~  	<p>WEIGHT </p> <p>UNIT WEIGHT </p> <p>TOTAL COUNT </p>
<ul style="list-style-type: none"> then press , load the number condition of sample: sample number must ≥ 10pcs, or it will show, Sample Insufficient. only can load interger in the stable condition 	<p>WEIGHT </p> <p>UNIT WEIGHT </p> <p>TOTAL COUNT </p>

resample: --

<ul style="list-style-type: none"> after sample, 	<p>WEIGHT </p> <p>UNIT WEIGHT </p> <p>TOTAL COUNT </p>
<ul style="list-style-type: none"> place more than 3 pcs onto the pan 	<p>WEIGHT </p> <p>UNIT WEIGHT </p> <p>TOTAL COUNT </p>
<ul style="list-style-type: none"> press  to resample condition of resample: after sample, place more than 10pcs onto the pan ($\pm 0.1e$). 	<p>WEIGHT </p> <p>UNIT WEIGHT </p> <p>TOTAL COUNT </p>

print: --

<p>Condition of printing: must be stable. press  : printing LCD display value.</p>

return--



press : return to weighing mode

accumulate: --



- press , perform accumulation
- accumulation condition: in the stable condition; only can accumulate once, remove objects on the pan and could accumulate once more; totally can accumulate for ten times.
- 1 sec later return to normal weighing mode

WEIGHT UNIT WEIGHT

TOTAL COUNT

WEIGHT UNIT WEIGHT

TOTAL COUNT

- when accumulating more than 10 times,
- means: times of accumulation over range, 1sec later return to normal weighing mode

WEIGHT UNIT WEIGHT

TOTAL COUNT

WEIGHT UNIT WEIGHT

TOTAL COUNT

P11


















Accumulate display: --











- press , perform accumulating display


















WEIGHT UNIT WEIGHT

TOTAL COUNT







<ul style="list-style-type: none"> press  ~  or  or  to select accumulation value 	
<ul style="list-style-type: none"> press  means: accumulate the first accumulation and quantities of individual accumulation 	<p>WEIGHT </p> <p>UNIT WEIGHT </p> <p>TOTAL COUNT </p>
<ul style="list-style-type: none"> press  means: total weight accumulation, times of accumulation and quantities of accumulation 	<p>WEIGHT </p> <p>UNIT WEIGHT </p> <p>TOTAL COUNT </p>
<ul style="list-style-type: none"> press  back to normal weighing mode when total value of accumulation over display range, it will show  	<p>WEIGHT </p> <p>UNIT WEIGHT </p> <p>TOTAL COUNT </p>


Accumulation clear: --

<ul style="list-style-type: none"> press  	<p>WEIGHT </p> <p>UNIT WEIGHT </p> <p>TOTAL COUNT </p>
<ul style="list-style-type: none"> press  ~  or  or  to select time of accumulation 	


<ul style="list-style-type: none"> press  means: accumulate value of the first time and individual quantities. 	<p>WEIGHT  UNIT WEIGHT </p> <p>TOTAL COUNT </p>
<ul style="list-style-type: none"> press  to cancel the accumulation value 	<p>WEIGHT  UNIT WEIGHT </p> <p>TOTAL COUNT </p>
<ul style="list-style-type: none"> press  means: total weight, times and quantities of accumulation 	<p>WEIGHT  UNIT WEIGHT </p> <p>TOTAL COUNT </p>
<ul style="list-style-type: none"> press  to cancel the accumulation value 	<p>WEIGHT  UNIT WEIGHT </p> <p>TOTAL COUNT </p>
<ul style="list-style-type: none"> press  back to normal weighing mode 	




Unit weight warning: --

<ul style="list-style-type: none"> press  unit weight load unit weight memory memory groups 	<p>WEIGHT  UNIT WEIGHT </p> <p>TOTAL COUNT </p>
<ul style="list-style-type: none"> press  or  to select memory sets 	





● press  to load equivalent unit weight and back to normal weighing or counting mode.


Unit weight memory: --

● press  unit weight load
 ● unit weight memory
 ● memory groups


WEIGHT	UNIT WEIGHT
	
	TOTAL COUNT
	




● press  or  to select memory sets













● press  ~  or  to load memory unit weight
 ● load unit weight, then press 

● press  to load equivalent unit weight and back to normal weighing or counting mode




Check-weighing: --

● press  HI, Lo, In, un, 3b, OK, oFF.
 ● n (beep alert), f (no beep alert).





WEIGHT	UNIT WEIGHT	P14
		
	TOTAL COUNT	
		

<ul style="list-style-type: none"> press  ,  ,  to select the check-weighing value 	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>WEIGHT</p>  </div> <div style="text-align: center;"> <p>UNIT WEIGHT</p>  </div> </div> <div style="text-align: right; margin-top: 10px;"> <p>TOTAL COUNT</p>  </div>
<ul style="list-style-type: none"> select check-weighing condition then press  ~  , load check-weighing range press  to confirm the loading of check-weighing range then press  back to normal weighing mode, when check-weighing wrong, it will show <div style="margin-top: 10px;"> <p>WEIGHT</p>  </div>	
<ul style="list-style-type: none"> press  to cancel check-weighing and back to normal weighing mode 	

Auto-tare: --

<ul style="list-style-type: none"> auto-tare condition: can't work below zero or above max capacity. In the stable condition, max $\geq 2\%$ Can not tare constantly (after auto tare, press "tare" to cancel pre-tare and get new tare value) if need another auto tare, clear the pan, press "zero" or "tare" to re-tare. 	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>WEIGHT</p>  <p>NET</p> </div> <div style="text-align: center;"> <p>UNIT WEIGHT</p>  </div> </div> <div style="text-align: right; margin-top: 10px;"> <p>TOTAL COUNT</p>  </div>
---	---

9、units conversion: ---






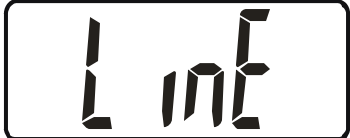




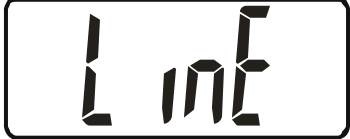











<p>P15 operation</p>	<p>LCD 显示内容</p>
<ul style="list-style-type: none"> press  to switch on the machine 	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>WEIGHT</p>  </div> <div style="text-align: center;"> <p>UNIT WEIGHT</p>  </div> </div> <div style="text-align: right; margin-top: 10px;"> <p>TOTAL COUNT</p>  </div>

<ul style="list-style-type: none"> press 1 1 3 2 	<p>WEIGHT 500 UNIT WEIGHT 1132</p> <p>TOTAL COUNT</p>
<ul style="list-style-type: none"> press SMPL 	<p>WEIGHT Unit UNIT WEIGHT 500</p> <p>TOTAL COUNT 66</p>
<ul style="list-style-type: none"> press 1 units conversion in turn: kg / g / lb / oz 	
<ul style="list-style-type: none"> press SMPL : 	<p>WEIGHT 500 UNIT WEIGHT 0</p> <p>TOTAL COUNT</p>
<ul style="list-style-type: none"> press ZERO : return to normal weighing mode 	

10. CALIBRATION OPERATION: ---

10.1 calibration (six point calibration) --

operation	LCD display
<ul style="list-style-type: none"> press TARE to switch on the machine. 	<p>WEIGHT CAL UNIT WEIGHT Unit</p> <p>TOTAL COUNT 60</p>



























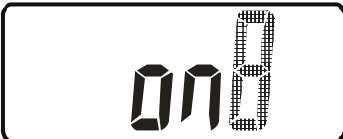


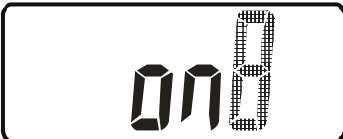


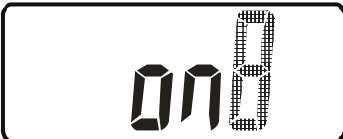





















<ul style="list-style-type: none"> ●  press ● zero point calibration 	<p>WEIGHT </p> <p>UNIT WEIGHT </p> <p>TOTAL COUNT </p>
<ul style="list-style-type: none"> ● waiting 	<p>WEIGHT </p> <p>UNIT WEIGHT </p> <p>TOTAL COUNT </p>
<p style="text-align: center;"></p> <ul style="list-style-type: none"> ● place 1/6 of load on , press  , to perform 1/6 load calibration 	
<ul style="list-style-type: none"> ● waiting 	<p>WEIGHT </p> <p>UNIT WEIGHT </p> <p>TOTAL COUNT </p>
<p style="text-align: center;"></p> <ul style="list-style-type: none"> ● place 2/6 of load on, press  , to perform 2/6 load calibration 	
<ul style="list-style-type: none"> ● waiting 	<p>WEIGHT </p> <p>UNIT WEIGHT </p> <p>TOTAL COUNT </p>
<p><i>continuous 10.1 calibration (six point calibration)</i></p>	
<p style="text-align: center;"></p> <ul style="list-style-type: none"> ● place 3/6 of load on, press  , to perform 3/6 load calibration 	
<ul style="list-style-type: none"> ● waiting 	<p>WEIGHT </p> <p>UNIT WEIGHT </p> <p>TOTAL COUNT </p>

<p>● place 4/6 of load on, press TARE, to perform 4/6 load calibration</p>	
<p>● waiting</p>	<p>WEIGHT CAL</p> <p>UNIT WEIGHT L mE</p> <p>TOTAL COUNT 005</p>
<p>● place 5/6 of load on, press TARE, to perform 5/6 load calibration</p>	
<p>● waiting</p>	<p>WEIGHT CAL</p> <p>UNIT WEIGHT L mE</p> <p>TOTAL COUNT 006</p>
<p>● place full load on, press TARE, to perform full load calibration</p>	
<p>● waiting</p>	<p>WEIGHT CAL</p> <p>UNIT WEIGHT L mE</p> <p>TOTAL COUNT PASS</p>
<p>● press TARE to return normal weighing mode</p>	








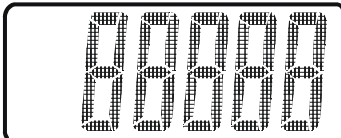


P18

10.2 single point calibration: --

operation	LCD display
<p>● press SMPL to switch on the machine</p>	<p>WEIGHT SET</p> <p>UNIT WEIGHT 0</p> <p>TOTAL COUNT</p>

<ul style="list-style-type: none"> press   	<table border="1"> <tr> <td>WEIGHT</td> <td>UNIT WEIGHT</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td>TOTAL COUNT</td> </tr> <tr> <td></td> <td></td> </tr> </table>	WEIGHT	UNIT WEIGHT				TOTAL COUNT		
WEIGHT	UNIT WEIGHT								
									
	TOTAL COUNT								
									
<ul style="list-style-type: none"> press , enter zero point calibration 	<table border="1"> <tr> <td>WEIGHT</td> <td>UNIT WEIGHT</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td>TOTAL COUNT</td> </tr> <tr> <td></td> <td></td> </tr> </table>	WEIGHT	UNIT WEIGHT				TOTAL COUNT		
WEIGHT	UNIT WEIGHT								
									
	TOTAL COUNT								
									
<ul style="list-style-type: none"> place weights of equivalent weight place 1/6 load on and press  place 2/6 load on and press  place 3/6 load on and press  place 4/6 load on and press  The rest can be deduced accordingly to full load. 	<table border="1"> <tr> <td>WEIGHT</td> <td>UNIT WEIGHT</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td>TOTAL COUNT</td> </tr> <tr> <td></td> <td></td> </tr> </table>	WEIGHT	UNIT WEIGHT				TOTAL COUNT		
WEIGHT	UNIT WEIGHT								
									
	TOTAL COUNT								
									
<ul style="list-style-type: none"> waiting 	<table border="1"> <tr> <td>WEIGHT</td> <td>UNIT WEIGHT</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td>TOTAL COUNT</td> </tr> <tr> <td></td> <td></td> </tr> </table>	WEIGHT	UNIT WEIGHT				TOTAL COUNT		
WEIGHT	UNIT WEIGHT								
									
	TOTAL COUNT								
									
<ul style="list-style-type: none"> press  <p>P19</p>	<table border="1"> <tr> <td>WEIGHT</td> <td>UNIT WEIGHT</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td>TOTAL COUNT</td> </tr> <tr> <td></td> <td></td> </tr> </table>	WEIGHT	UNIT WEIGHT				TOTAL COUNT		
WEIGHT	UNIT WEIGHT								
									
	TOTAL COUNT								
									
<ul style="list-style-type: none"> press  : back to normal weighing mode 									

11、COUNT DISPLAY, testing: ---

operation	LCD display
<ul style="list-style-type: none"> press  to switch on the machine 	<p>WEIGHT  UNIT WEIGHT </p> <p>TOTAL COUNT </p>
<ul style="list-style-type: none"> press  then press , display total weight 	<p>WEIGHT  UNIT WEIGHT </p> <p>TOTAL COUNT </p>
<ul style="list-style-type: none"> press  : back to normal weighing mode 	

12、ERROR MESSAGE:---

message	problem	P20
Err2	Initial zero point over $\pm 20\%$	
Err5	Over load (max capacity $+9e$)	
ACC.ov	Times of accumulation over 10 times	
over	Display value over range	
Battery symbol	Low battery	
LOBAT	low voltage	

13、trouble shooting: ---

when	Error message	Trouble shooting
Power on	Err2,	Check and remove the object from weighing pan or malfunction of LOAD CELL
Power on	Battery symbol appear	Charge the battery
Normal weighing mode	Err5	Check if weighing object over the capacity $+9e$,Err
Normal weighing mode	LOBAT	Plug in the AC power and switch on the machine

14、specifications: ---

(triple range resolution type)

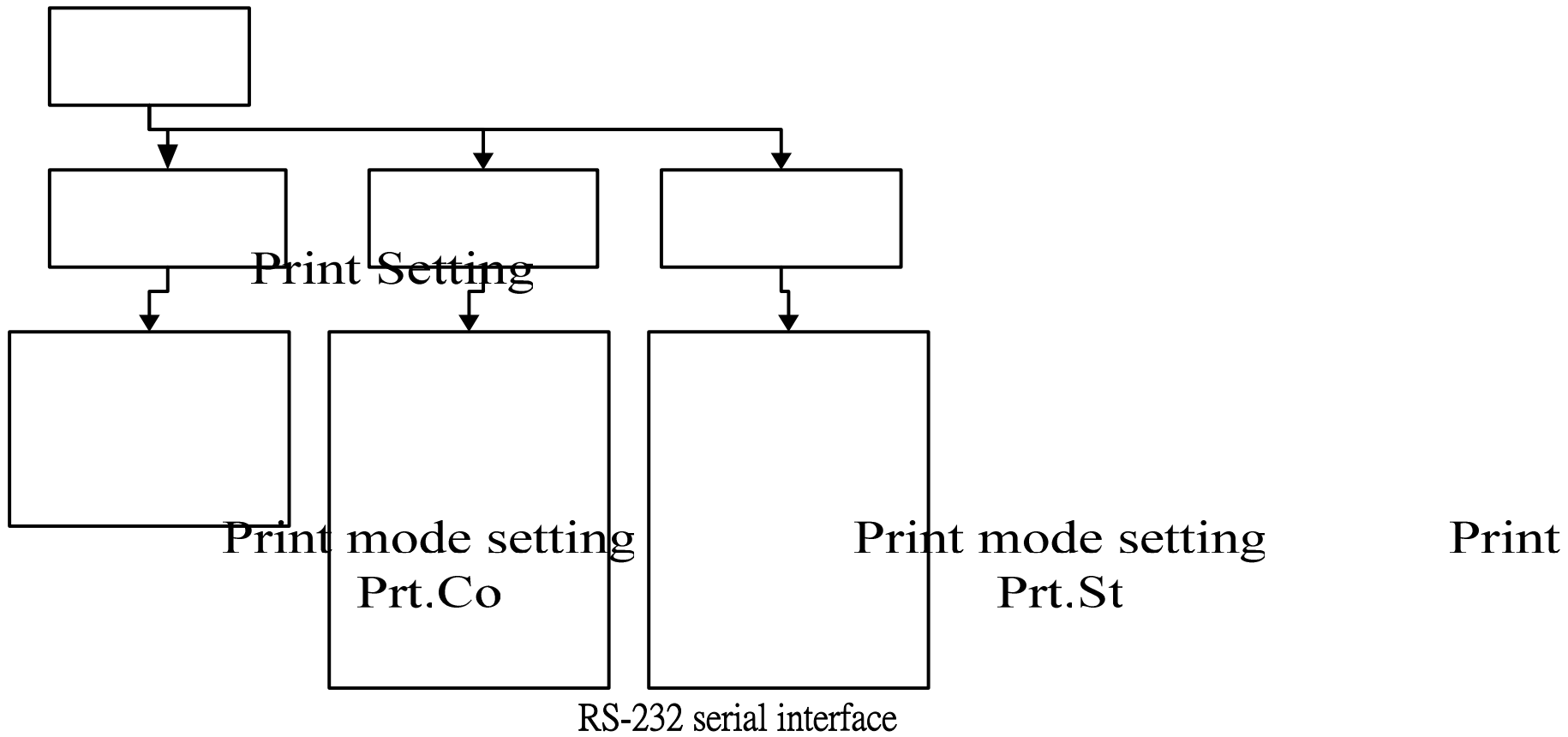
產品型號 :	30			75			150			300		
Max. Cap : kg	0~6kg	6~15kg	15~30kg	0~15kg	15~30kg	30~75kg	0~30kg	30~75kg	75~150kg	0~75kg	75~150kg	150~300kg
Resolution : kg	0.001kg	0.002kg	0.005kg	0.002kg	0.005kg	0.01kg	0.005kg	0.01kg	0.02kg	0.01kg	0.02kg	0.05kg
Resolution : g	1g	2g	5g	2g	5g	10g	5g	10g	20g	10g	20g	50g
Resolution : oz	0.05oz			0.1oz			0.2oz			0.5oz		
Resolution : lb	0.002lb			0.005lb			0.01lb			0.02lb		
Linearity :	$\pm 2d$			$\pm 2d$			$\pm 2d$			$\pm 2d$		
Repeatability :	0.001kg	0.002kg	0.005kg	0.002kg	0.005kg	0.01kg	0.005kg	0.01kg	0.02kg	0.01kg	0.02kg	0.05kg
Internal resolution :	0.1g			0.2g			0.5g			1		
LCD :	LCD Display LED backlight 5 1/2、5、5 Digits。With 22mm digits											
adaptor :	DC12V 300mA Adaptor、6V4A rechargeable battery											

resolution	1/7,500 1/6,000				
Key size :	numbers	RSMPL	ZERO	Unit weight memory	UWS
	Check-weighing	sample	Unit weight warning	print	TARE
	RETURN	CE	decimal	M+	MR
	MC				
Weighing units :	kg / g / lb / oz				
Unit weight units :	g / g / lb / oz				
Protect device :	yes				
function	Check-weighing, counting, quantities accumulation (10times) ,weighing accumulation (10times) Pre-tare、 linearity calibration, (six point 1/6 max、 2/6 max、 3/6 max、 4/6 max、 5/6 max、 max) Soft-ware filtering, units conversion, printing setting, resample, auto average, unit weight memory				
temperature :	0°c~40°c				
RS-232 :	Bi-direction and dual-direction, could connect SH-24、 TDP-643 printer				
RELAY	HI、 LO 、 OK RELAY output module				

(1/15000 type)

mode :	30	75	150	300	
Max. Cap : kg	30kg	75kg	150kg	300kg	
P21 Resolution : kg	0.002kg	0.005kg	0.01kg	0.02kg	
Resolution : g	2g	5g	10g	20g	
Resolution : oz	0.05oz	0.1oz	0.2oz	0.5oz	
Resolution : lb	0.002lb	0.005lb	0.01lb	0.02lb	
Linearity :	±2d	±2d	±2d	±2d	
Repeatability :	2g	5g	10g	20g	
Internal resolution :	0.1g	0.2g	0.5g	1	
LCD :	LCD Display LED backlight 5 1/2、 5、 5 Digits ° With 22mm digits				
adaptor :	DC12V 300mA Adaptor、 6V4A rechargeable battery				
resolution	1/30,000				
Key size :	numbers	RSMPL	ZERO	Unit weight memory	UWS
	Check-weighing	sample	Unit weight warning	print	TARE
	RETURN	CE	decimal	M+	MR
	MC				
Weighing units :	kg / g / lb / oz				
Unit weight units :	g / g / lb / oz				
Protect device :	yes				
function	Check-weighing, counting, quantities accumulation (10times) ,weighing accumulation (10times) Pre-tare、 linearity calibration, (six point 1/6 max、 2/6 max、 3/6 max、 4/6 max、 5/6 max、 max) Soft-ware filtering, units conversion, printing setting, resample, auto average, unit weight memory				
temperature :	0°c~40°c				
RS-232 :	Bi-direction and dual-direction, could connect SH-24、 TDP-643 printer				
RELAY	HI、 LO 、 OK RELAY output module				

15、RS-232 output format: ---



The 9PIN interface in the right back is the standard interface of RS-232, 3rd PIN is output, 5th PIN is grounded, the rest is useless.

BAUD RATE : 9600 bps DATA BIT : 8 PARITY BIT : N (NONE) STOP BIT : 1 CODE : ASCII

BIT FORMAT : Printing content

Printing content

Example

G..W.: 1.000 kg

U.W.: 0.050 g/Pcs

Count: 20000 Pcs

Example

HACXXXX

N/S:XXXXXX

Acc.01

G..W.: 1.000 XX

U.W.: 0.050 XX/

Pcs

Count: 20000 Pcs

Acc.ALL01

Count: 20000 Pcs

START BIT

DATA BIT

STOP BIT

DATA FORMAT : (Prt.Co)

G/N	.	W	.	:	±																	
U	.	W	.	:																		
C	o	u	n	t	:																	

範例

G..W.: 1.000 kg
U.W.: 0.050 g/Pcs
Count: 20000 Pcs

DATA FORMAT : (Prt.Co)

G/N	.	W	.	:	±									g	CR	LF						
U	.	W	.	:										g	/	P	c	s	CR	LF		
C	o	u	n	t	:									P	c	s	CR	LF				

範例

G..W.: 1.000 g
U.W.: 0.050 g/Pcs
Count: 20000 Pcs

DATA FORMAT : (Prt.Co)

G/N	.	W	.	:	±									l	b	CR	LF					
U	.	W	.	:										l	b	/	P	c	s	CR	LF	
C	o	u	n	t	:									P	c	s	CR	LF				

範例

G..W.: 1.000 lb
U.W.: 0.050 lb/Pcs
Count: 20000 Pcs

DATA FORMAT : (Prt.Co)

G/N	•	W	•	:	+/-									o	z	CR	LF				
U	•	W	•	:										o	z	/	P	c	s	CR	LF
C	o	u	n	t	:									P	c	s	CR	LF			

範例

G.W.: 1.000 oz
U.W.: 0.050 oz/Pcs
Count: 20000 Pcs

DATA FORMAT : (Prt.St Prt.Pr)

A	c	c	•	X	X																
G/N	•	W	•	:	+/-									X	X	CR	LF				
U	•	W	•	:										X	X	/	P	c	s	CR	LF
C	o	u	n	t	:									P	c	s	CR	LF			
A	c	c	•	A	I	I	X	X													
C	o	u	n	t	:									P	c	s	CR	LF			

範例

HACXXX
N/S:XXXXXX
Acc.01
G.W.: 1.000 XX
U.W.: 0.050 XX/Pcs
Count: 20000 Pcs
Acc.ALL01
Count: 20000 Pcs