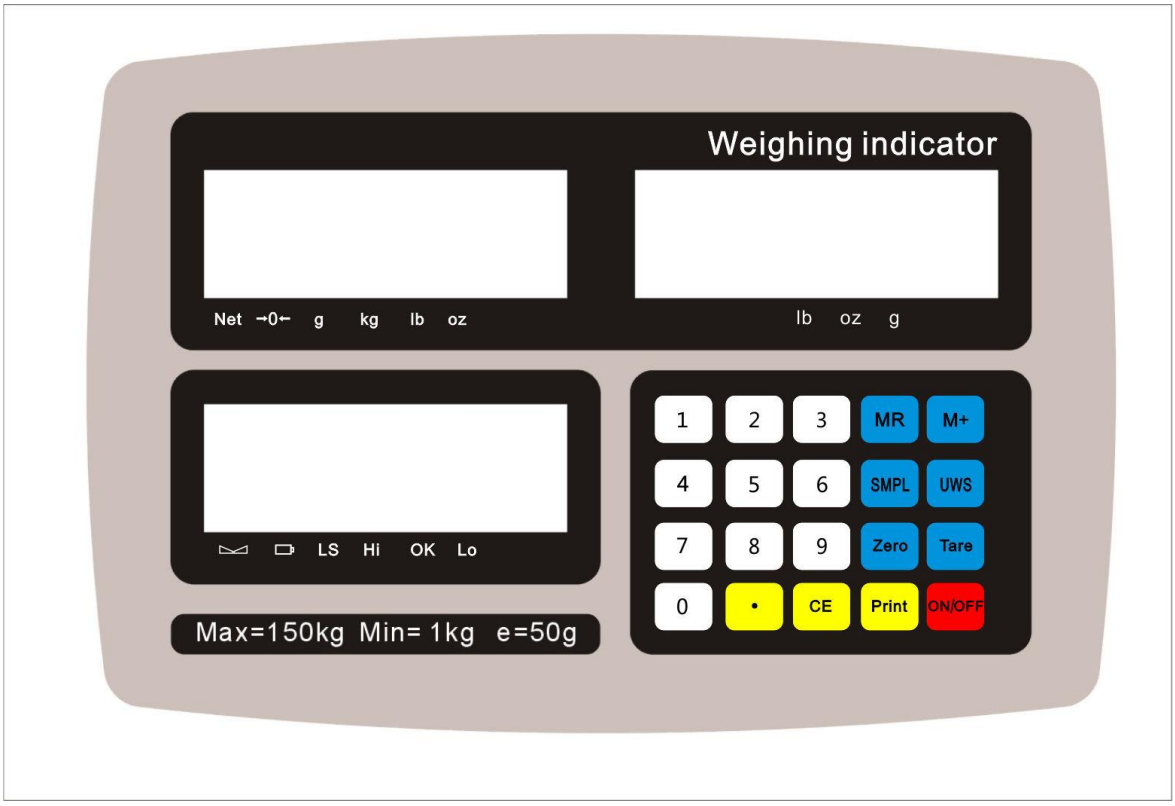


Weighing indicator

USER MANUAL

Safety Instruction

For safety operation pls. follow the safety instruction.

WARNING
Setting, Calibration Inspection and Maintain of the indicator is prohibited by Non-professional staff.

WARNING
Pls. make sure the weighing display have good ground in using

	**WARNING**
	The indicator is the static and sensitive equipment, cut off the power during electrical connections, internal components touched by hand is prohibited, and please take the measure of anti-static.

LIST

1 BASIC OPERATION 1

1.1 Keyboard and Keys 1

1.2 Various Function Settings 1

2 STARTUP PROCESS 2

2.1 Starting Up 2

2.2 Display 2

2.3 Battery instruction 2

3 OPERATION AND FUNCTION DESCRIPTION 2

3.1 Zero 2

3.2 Tare 2

3.3 Numeric keys and ● 3

3.4 Delete Weight Values 3

3.5 SMPL 3

3.6 UWS 3

3.7 Accumulative Cleanup 3

3.8 Display Accumulation 3

3.9 Accumulation 3

3.10 Print 4

3.11 Upper Limit Setting 4

3.12 Lower Limit Setting 4

3.13 Check Weight Function 4

4 FUNCTION PARAMETER SETTING 5

4.1 Specification Setting 5

4.2 Linear Calibration 5

4.3 Single Point Calibration 6

4.4 Function Setting 6

4.5 RS-232 Setting 6

4.6 Check Weight Function Setting 7

5 COUNT DISPLAY 8

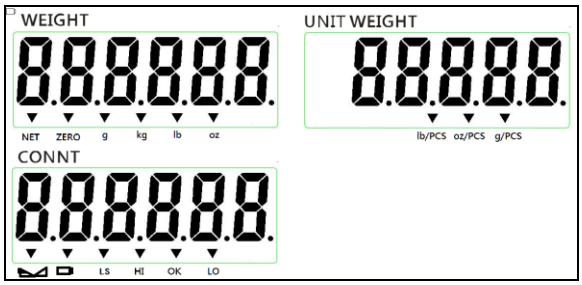
6 ERROR 8

7 SPECIFICATION 9

8 COMMUNICATION FORMAT： 9

1 Basic Operation

1.1 Keyboard and Keys



1	2	3	MR	M+
4	5	6	SMPL	UWS
7	8	9	Zero	Tare
0	●	CE	Print	ON/OFF

1.2 Various Function Settings

Keys	function
0+CE+ ON/OFF	parameters setting (linear calibration, specification setting)
After parameter setting press SMPL	specification setting
After parameter setting press UWS	linear calibration
ON/OFF+UWS	User settings (the single point calibration,RS232 set, print set, check weight set)
After User setting press SMPL	The single point calibration
After User setting press 0	Feature setting
After User setting press 1	RS232 set
After User setting press Print	check weight set
ON/OFF + Zero	Zero
ON/OFF + Tare	Tare
ON/OFF + CE	Input clear/cumulative clear
ON/OFF + Numeric keys	Input number
ON/OFF + Numeric keys + ●	Input single weight
ON/OFF + SMPL	sample
ON/OFF + UWS	Single input function
ON/OFF + Print	print
ON/OFF + MR	Display accumulation
ON/OFF + M+	accumulation
After starting up ,long press Print	Open /Close check weight function
After starting up , long press MR	Lower limit setting
After starting up , long press M+	Upper limit setting
After self-inspection, press CE+●	specification setting (not need calibration)

2 Startup Process

2.1 Starting Up

step	operation	scheme
1	Press ON/OFF ,LCD light, EL light, then execute the main program.	

2.2 Display

step	operation	scheme
1	All Display, 9 – 0 Display COUNT - - - - - Ver X ex: COUNT 30kg Ver 0	

2.3 Battery instruction

1. When you use the internal battery first time, you should charge the battery10-12 hours, to prevent low voltage resulted from self leakage of battery.
2. The battery voltage could be checked from the light on the left bottom of the display. If the battery voltage is lower than 3.9V, " " instructions flickering and Lobat shining on LCD display, then please recharge the battery.
3. " " instructions flickering slowly and charge time 10-12 hours.
4. When the "BAT" instructions stabilizing on LCD display , it means charging finish.
5. If you don't use the indicator for a long time, please take out the battery to protect the indicator from the battery leakage.

3 Operation and Function Description

3.1 Zero

step	operation	scheme
1	Press Zero , weight Display ZEro , then the weight display 0. Manually zero range：±2%Max；initial zero range：±10%Max.	

3.2 Tare

step	operation	scheme
1	Press Tare , weight Display tArE , then the weight display 0. Continuous TARE, no skin back.	

3.3 Numeric keys and ●

step	operation	scheme
1	0~9 and ● used for inputting single weight, sampling, and delete weight values.	

3.4 Delete Weight Values

step	operation	scheme
1	In any case, press CE, the single weight + quantity LCD display 0.	

3.5 SMPL

step	operation	scheme
1	a. after press 0~9, LCD display weight, sampling number, 0. b. press SMPL, LCD display weight, SMPL, 0,stable. c. put on weight, LCD display weight, single weight, quantity.	

3.6 UWS

step	operation	scheme
1	a. 0 ~ 9 and ● After press 0 ~ 9 , Display weight, single weight, 0. b. press UWS, LCD display weight, single weight, quantity	

3.7 Accumulative Cleanup

step	operation	scheme
1	In accumulative state, press CE, cleanup all accumulation, LCD display XXXXXX, ClrACC, XXXXXX, then back normal weight.	

3.8 Display Accumulation

step	operation	scheme
1	Press MR, LCD display total weight, XXXXX, quantity; press any key will back to weighing mode.	

3.9 Accumulation

step	operation	scheme
1	Press M+, LCD display quantity, XXXXX, total weight, then back to the weighting mode.	

3.10 Print

step	operation	scheme
1	RS232 set as key output, press Print, RS232 output.	

3.11 Upper Limit Setting

step	operation	scheme
1	a. press M+ enter upper limit setting , LCD display original value , SEtHi , 0 b. after press 0~9, LCD display original value , SETHI, XXXXX c. confirming the input value, press SMPL, back to the weighting mode.	

3.12 Lower Limit Setting

step	operation	scheme
1	a. press MR enter lower limit setting, LCD display original value, SEtLo , 0 , b. after press 0~9, LCD display original value, SEtLo , XXXXX c. confirming the input value, press SMPL, back to the weighting mode.	

3.13 Check Weight Function

step	operation	scheme
1	Press Print , can open/close check weight function . , CKOFF , close , CKON , open	

4 Function Parameter Setting

4.1 Specification Setting

step	operation	scheme
1	Press 0+CE+ON/OFF, LCD display 0, 0, 0	
2	Press SMPL enter specification setting; LCD display original value, , SET .	
3	press 0~9; LCD display original value, input value, SET	
4	press SMPL enter the linear calibration mode.	
Note 1	(a) (b) (c) (d) (e) 12010 (a) Models set 1 =30kg 2 =60kg 3 =150kg 4 =300kg (b) Precision setting function 0 =3000 1 =12000/15000 2 =30000 3 =60000/75000 (c) Backlight set 0 = no backlight 1 =automatic backlight 2 = backlight (d) Weighing seismic function 0 ~9 the larger seismic value means the larger seismic amplitude (e) Low voltage protection 0 =open 1 =close	

4.2 Linear Calibration

step	operation	scheme
1	Press 0 +CE +ON/OFF,LCD display 0, 0, 0	
2	Press UWS enter linear calibration mode;LCD display 0L ZEro XXXXXX;press SMPL can correct zero point.	
3	After stabilization , LCD display 1L, , on1;put on weight, press SMPL can correct 1/3 weight.	
4	After stabilization, LCD display 2L, , on2;put on weight, press SMPL can correct 2/3 weight.	
5	After stabilization, LCD display 3L, , on3;put on weight, press SMPL can correct total weight.	
6	After stabilization, LCD display CAL, OK, ;press SMPL back to the weighting mode.	

4.3 Single Point Calibration

step	operation	scheme
1	Press UWS+ON/OFF ,LCD display 0, 0, 0	
2	Press SMPL enter single point calibration mode; LCD display 0L ZEro ; Autocorrect zero after stabilization, LCD display put cal weight; press SMPL can correct.	
3	After stabilization , LCD display SPAN , ; put on weight.	
4	Wait, LCD display SPAn , onX	
5	After stabilization, LCD display CAL , OK , ; press SMPL back to the weighting mode.	

★Calibration weight selection range： 1/3,2/3, 3/3 of the weight in any point.

4.4 Function Setting

step	operation	scheme
1	press UWS+ON/OFF ,LCD display 0, 0, 0	
2	pres 0 enter USER setting mode; LCD display original value, , U SET .	
3	After press 0~9 ;LCD display original value, input value, U SET	
4	press SMPL confirm and back to the weighing mode.	
	(a) (b) (c) (d) (e) 02210 (a) (b) Filter seismic setting 0 ~5 The higher value means the better filtering effect. (c) zero range 0 =+/- 0d 1 =+/- 1d 2 =+/- 2d 3 =+/- 3d (d) automatic zero range 0 =+/- 0d 1 =+/- 1d 2 =+/- 2d (e) units 0= g 1= kg 2= lb 3= oz	

4.5 RS-232 Setting

step	operation	scheme
1	press UWS+ON/OFF ,LCD display 0, 0, 0	
2	press 1 enter RS232 setting mode; LCD display original value, , RSSET.	
3	After press 0~9 ; LCD display original value, input value, RSSET	
4	press SMPL confirm and back to the weighting mode.	
	(a) (b) (c) (d) (e) 21111 (a) Baud setting 0 =2400 1 =4800 2 =9600 3 =19200 (b) print the total weight 0 =NO 1 =YES (c) print the single weight 0 =NO 1 =YES (d) print the total value 0 =NO 1 =YES (e) Print 0= Continuous printing 1= stale print 2= Print method 3= Print method（has an interval）	

Note: input new value needs to be cleared before value.

4.6 Check Weight Function Setting

step	operation	scheme
1	Press UWS+ON/OFF ,LCD display 0, 0, 0	
2	press Print enter check weight function setting mode; LCD display original value, CKSET.	
3	After press 0~9; LCD display original value, input value, CKSET	
4	press SMPL confirm and back to the weighting mode.	
	(a) (b) (c) (d) (e) 00010 (a) checking mode setting 0 =weight 1 =number (b) print the total weight 0 = stability 1 = instability (c) checking function setting 0 =HI 1 =LO 2 =IN 3=UN (d) the buzzer alarm 0 =NO 1 =YES	

5 COUNT Display

step	operation	scheme
1	press Zero+ ON/OFF, LCD display ADC, Voltage value, key value	
2	any key except Zero, total price LCD display corresponding key value.	
3	Press Zero back to the weighting mode.	

6 Error

Place	Error message	method
Start up	battery symbol	charging (about 5.8V)
Start up	Lo-bat	The battery is low (about 3.8V)
Normal weighing operation	oL	Check the weight is more than the Max.+9e

Error	problem	scheme
Lo-bat	Low voltage immediate charging	
Err	Direct accumulation	
oL	Overweight （the Max.+9e）	

7 Specification

model	C 15Kg	C 30Kg	C 60Kg	C 150Kg	C 300Kg
Precision	1/15000	1/15000	1/12000	1/15000	1/15000
DIV.(kg)	1g	2g	5g	10g	20g
Precision	1/30000	1/30000	1/30000	1/30000	1/30000
DIV.(kg)	0.5g	1g	2g	5g	10g
Precision	1/75000	1/60000	1/60000	1/75000	1/60000
DIV.(kg)	0.2g	0.5g	1g	2g	5g
Internal resolution	More than 600000 (SPAN)				
specification	LCD 6 digits				
CPU/AD	8051				
power supply	AC 220V 4V4ALead-acid battery				
units	kg,g,lb,oz				

8 communication format：

T	/	W	:	S/U	+/-								unit	unit				
U	/	W	:										unit	unit	/	P	C	S
Q	t	y	:										P	C	S			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

print format：

T/W:S+19.998kg
U/W: 143g/pcs
Qty: 140pcs