

OPERATION

MANUAL

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I. Major Parameter

Division Value:	1~150, 000
Non-linearity:	≤0.01%F.S
Load cell bridge voltage:	DC + 3V, Max input signal 10mV
Load cell:	350Ω
Operation keypad:	20 keys
Full capacity temp modulus :	≤8 PPM/ °C
Display:	LCD, 6 digits, green backlight
Operating Temperature:	0~40°C; ≤85%RH
Power Source:	AC 110V/220V (±10%) + DC 4V/6V Rechargeable Battery

II. Special Remarks

- 1.Put the scale on a firm level surface for accurate weight readings.
- 2.Please use independent AC outlet to avoid the interference of other electrical appliances, please don't place anything on the scale pan while power on.
- 3.Avoid the scale near the exhaust port of ventilating system.
- 4.Please warm up the scale 15-20 minutes before operation.
- 5.All goods weighed should be placed in the centre of the scale pan for a accurate weighing. The overall dimensions of the goods being weighed should not exceed the dimension of the scale pan.

III. Keypad Function

- 0~9 & . : Input numbers.
- SMPL: Confirm the sample quantity.
- Q'TY PST: Confirm the presetting alarm numerical value.
- M+: Weight accumulation.
- UNIT W.T. : Confirm the unit weight value.
- PST CE: Cancel the presetting alarm numerical value.
- CE : Clear the numerical value input.

- MC: Clear the accumulated weight value.
- ZERO: Turn the scale to zero. Range: 2%FS.
- TARE: Tare function within full capacity.

IV. Operations

1. Turn on

Please move the object from pan, turn on the power switch, the scale will show self-check, and then return zero and enter into weighing mode.

2. Turn off

Please turn off the scale by the power switch in the "off " mode.

3. Backlight

Press and hold [1] key, turn on the scale until it shows “AUTO” or “OFF” or “ON”, press [TARE] key for optional, [ZERO] key to confirm. “AUTO” means backlight automatically, “ON” means backlight on, “OFF” means backlight off.

4. Calibration Function

Press and hold [ZERO] key, turn on the scale until it shows "CAL-1".

Press [TARE] key to select "CAL-1" / "CAL-3", "CAL-1" means single stage calibration, "CAL-3" means three stages calibration.

"CAL-1" steps:

- (1) : Press [ZERO] key to show “CAL”
- (2) : Press [ZERO] key again to show “0”
- (3) : Input the calibration value which should be equal to or more than 2/3 full capacity, kg as unit. For example 2kg calibration value, we should input “2”
- (4): Put on the standard weight with same weight value as display, press [ZERO] key to confirm after stable, remove the weight, calibration finish and the scale turn back weighing.

"CAL-3" steps:

- (1) : Press [ZERO] key to show “CAL 1” in Unit Weight screen.
- (2) : Press [ZERO] key again to show the first stage calibration

value in Weight screen, g as unit, “CAL 2” in Unit Weight screen.

(3) : Put on the standard weight with same weight value as display, press [ZERO] key to confirm after stable to show the second stage calibration value in Weight screen, and “CAL 3” in Unit Weight screen.

(4) : Put on the standard weight with same weight value as display, press [ZERO] key to confirm after stable to show the third stage calibration value in Weight screen, and “CAL 4” in Unit Weight screen.

(5) :Put on the standard weight with same weight value as display, press [ZERO] key to confirm after stable, remove the weight, calibration finish and the scale turn back weighing mode,

5. Units Selection

Press and hold [2] key, turn on the scale until it shows “Uint”, press [TARE] key for optional of g, kg, lb, oz units, press [ZERO] key thrice to turn back weighing mode.

6. Zero Function

During the weighing, without objects on the pan but the weight display is not zero, please press [ZERO] key to make the scale display zero. Press this key invalid if the weight value display exceed +/- 2% or the scale is in tare state, .

7. Tare Function

When using the wrapper for objects weighing, please following steps: place the wrapper on the pan, press [TARE] key to deduct the wrapper weight. Weight value display zero, and the tare mark will display, then place the object into wrapper, now the weight value is the object weight. Take away the wrapper and object, the weight value will display minus, press [TARE] key again to finish tare mode.

8. Piece Weight Setting

When you know the unit weight of your components which needs to be counted, please input the unit weight value by numeric keys, press [UNIT W.T.] key to

confirm, then put same components on the pan, Total Count screen will display quantity of all components.

9. Number Setting

Put sampling components on the pan, input number value by numeric keys, and press [SMPL] key, Unit Weight screen will display the unit weight value of one component, and then put same components on the pan, Total Count screen will display quantity of all components.

10. Wave Filtering Parameter Setting

You can change the wave filtering parameter to change the indicator show stable time and stable speed when you use indicator at different place which needs to change response speed .

Press and hold [TARE] key, turn on the scale until it shows “nb x”, x=0, 1, 2, 3. the value of x from small to large, separately means showing speed from slow to fast, press [TARE] key to change the parameter, then press [ZERO] key to confirm.

11. The Range of Zero Tracking and Zero Display Setting

Press and hold [0] key, turn on the scale until it shows “x d”,

(1) x=0.0, 0.5, 1.0, 1.5, 2.0, 3.0. Press [TARE] key to change the parameter, then press [ZERO] key to confirm.

(2) ZERo-S means zero tracking display invalid. ZERo-L means to display 0 within the range of +/- 3d.

12. Counting Options and Auto-average on / off Options

Press and hold [3] key, turn on the scale to get into setting, press [TARE] key to change the parameter, [ZERO] key to confirm.

(1) “div” or “Code”, “div” means division counting, “Code” means internal code counting.

(2) “on” or “off”, means auto-average function on or off.

13. Accumulation Function

During the counting state, press [M+] key for accumulation. Weight screen display accumulation times. Total Count screen display the total quantity of

accumulation, then return back current counting state, display accumulation symbol.

It will show " OL "when the total quantity exceeds the range of display, .

Press [CE] key to clear all numerical value of total accumulated.

14. Alarm Parameter Setting




We can install Three-color light alarm device on scale for better visual and auditory effects of alarm.

14.1: Press and hold [Q'TY PST] key, turn on the scale to get into alarm parameter setting. [TARE] key for selecting, [ZERO] key to confirm.

(1) "r on" / "r off", means alarm function on / off.

(2) "b on" / "b off", means buzzer on / off.

(3) "bEE x", means buzzing in different weighing range, x=0, 1, 2, 3.

x	Alarm Mode	Low Limit Value	High Limit Value	Indicator
0	Weight value higher than high limit (>A)	0	A	
1	Weight value lower than low limit (<B)	B	0	
2	Weight value between high and low limit(>=B & <=A)	B	A	OK
3	Weight value out of high and low limit(<B & >A)	B	A	

14.2: Limit counting value presetting

(1) Press [Q'TY PST] key to display "down", input the low limit counting value, Press [Q'TY PST] key again to display "up", input the high limit counting value, press [Q'TY PST] key to confirm and finish setting.

(2) Press [CE] key to clear the limit counting value as 0 if needed during presetting.

15. Communication Setting


Press and hold [2] key, turn on the scale until it shows "Uint", [TARE] key to change the parameter, [ZERO] key to confirm.

(1) Press [ZERO] key, it shows “bAUd” , baud rate=9600bps, 4800bps, 2400bps.

(2) Sending mode, CO=Sending continuously, ST=Sending after stabilization,
PR=press RE-CALL key for sending

V. Power Source Illustration

1. Low battery warning

When  symbol appears in the lower left hand corner of the LCD display, the battery needs to be recharged. Without charging and the battery symbol flicker, the scale will switch off automatically after approximately 2 minutes.

2. Charging reminder

The LED light turn red when charging start, it will turn green up to 80% charged, then charging more 1~2 hours to make sure the battery charging full.