



TD-CA

ELECTRONIC SCALE

Operation Manual

TABLE OF CONTENTS

I. Major Parameter	1
II. Special Remarks	1
III. Keypad Functions	2
IV. Operations	2
V. Simple Trouble Shooting Method	7

I. Major Parameter

Division Value:	1~75000
Non-linearity:	$\leq 0.01\%F.S$
Load cell bridge voltage:	DC + 3V, Max input signal 10mV
Load cell:	350 Ω
Operation keypad:	20
Full capacity temperature modulus:	≤ 8 PPM/ $^{\circ}C$
Display:	LCD, 6 digits, backlight
Operating Temperature:	0~40 $^{\circ}C$; $\leq 85\%RH$
Power Source:	AC 110V/220V ($\pm 10\%$) DC 6V/4AH 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 machine near the exhaust port of ventilating system.

4. When display auto power-off or undervoltage please charge 12 hours.



5. All goods weighed should be placed in the centre of the platform for a accurate weighing. The overall dimension of the goods being weighed should not exceed the dimension of the plaster.


III. KEYPAD FUNCTIONS


-  : Use this key to set and confirm the quantity
-  : Use this key to preset the quantity to be alert
-  : Use this key is used for weight accumulation
-  : Use this key to set and confirm the unit weight
-  : Use this key to cancel the preset alarm value
-  : Use this key to clear the readings entered.
-  : Use this key to clear the total accumulated weight under

ACCUMULATION state.

 And

 ~  : used for input quantity caution and unit weight、Number set. 请输入文字

 : Set the scale returns to zero, hit the key to clear the display

 : Use this key to subtract that the current weight readings is net weight.

IV. Operations

1. Turn on the scale:

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

2. Turn off the scale:

The power switch please make in the "off" status.

3. Zero function:

During the weighing, if no any objects on the pan but the weight display is not zero, please press "**+0***" make the scale display zero mark. If the scale displays the value exceed +/- 2%, or the scale is in tare state, press this key invalid.

4. Tare function:

Use the package to weighing, please according to the steps as follow: place the wrap package on the pan, press "**+T***" deduct the wrap page weight. Weight value display zero, and the tare mark will display. Then place the object into wrap package, now the weight value is the object weight. Take away the wrap package and object, the weight value will display minus, press "**+T***" again to finish tare mode.


5. Piece weight setting:


When you know the unit weight of your components need to be counted, please input the unit weight value by numeric keys, confirm and press "**UNIT W.T.**" key, then put same components on the pan, total count will display quantity of all components.

6. Number setting:


Input number value of your sampling components by numeric keys, and press "**SMPL**" key, Unit weight will display the unit weight value of one component, and then put same components on the pan, total count will display quantity of all components.

7. Alarm setting & cancel:

Input number value need to be alert by numeric keys, and press "  " key. When the quantity arrives, the scale will alarm.


When you want to cancel the alarm, please press "  " .

8. Accumulation & accumulation clearing:

During the counting state Press "  " key for accumulation. Weight screen display accumulation times. Unit weight screen display the total quantity of accumulation. And then return current counting state. Then will show the indicator.




When the total quantity exceeds the range of display, it will show " OL " .

During ACCUMULATION state.

Press "  " key to clear all value of total accumulated weight.

9. Wave filtering parameter setting:

You can change the wave filtering parameter that could change the indicator show stable time and stable speed When you use indicator at different place, need change response speed .

Turn on scale and self-checking, press "  " key until self-checking finished. It will display " \cap bX ", therein the value of X from small to large, separately means show speed from slow to fast, press "  " key to change the parameter, and then press "  " key to confirm.

10. The range of zero tracking and zero display setting.

Turn on the scale and self-checking, press "  " key until

self-checking finished and enter into setting. Then press "**→T←**" key to change the parameter, and press "**→0←**" key to confirm.

1) the choice of zero tracking range: 0.0d, 0.5d, 1.0d, 1.5d, 2.0d, 3.0d six kinds of models for your select.

2) the choice of zero display range: Zero-S, Zero-L two model for your select.

3) the choice of 30d zero display range: 30d OFF, 30d ON two models for your select.

11. Select backlight display way.

Turn on the scale and self-checking, press "**1**" key until self-checking finished, There have three models AUTO、OFF、ON for your select. press "**→T←**" to change, then and press "**→0←**" to confirm.

12. Communication setting

Turn on scale and self-checking press "**2**" key until self-checking finished. first enter into Baud rate parameters options, there are three model for optional: 2400bps、4800bps、9600bps, the screen will shown as: "bAud 2400"、"bAud4800"、"bAud9600". Press "**→T←**"select appropriate baud rate, press "**→0←**" to confirm.

And then enter into date send seting, two model optional: St- -during weighing stable send one time, Co- -continuous sending. Press "**→T←**" to select model, press "**→0←**"to confirm.

13. Counting options and auto-average on or off options

Turn on scale and during scale self-checking press "**3**" key,

until self-checking finished then enter into setting. Press " $\rightarrow T \leftarrow$ " key change parameter, press " $\rightarrow 0 \leftarrow$ " key to confirm.

1) Count mode selection: "div" (dividing counting) and "Code" (Internal Code Counting) two mode option .

2) Auto-average function for your select: "off" and "on".

14. External calibration

Because of different latitude will arouse the weigh inaccurate, could use standard weights calibration. Press " $\rightarrow 0 \leftarrow$ " key turn on scale until self-checking finished, at present will display "CAL", press " $\rightarrow 0 \leftarrow$ " key display 0, place weight which greater

than or equal to 2/3 weights. input weight value, kg as unit, (such as if the full capacity is 3kg if you want to calibrate please place 2kg standard weight, input 2). Hold on the scale stable then press " $\rightarrow 0 \leftarrow$ ". display calibration value, if the error exceed

this scale full capacity +/-10%, that could not use the external calibration to calibrate.

15. Charge instruction

When the battery undervoltage will display undervoltage mark please turn off the scale. (If you until use this scale ,the indicator will auto power-off) and charge need 12 hours. During the indicator charge the indicator light will show "yellow". Finished charge indicates charge light will show "green", and re-charge 3~4hours for ensure the battery power sufficient.

V. Simple Trouble Shooting Method

Fault	Reason	Excluded
Charging light does not shine	<ul style="list-style-type: none">- Fuse burning- Is there electrical power outlet	<ul style="list-style-type: none">- Replace the fuse- To the socket transmission electricity
Display unstable	<ul style="list-style-type: none">- Bad environment- Scratching or a foreign body between the Pan and the instrument case .- Instability in the measured weight of the object	<ul style="list-style-type: none">- Improve the working environment- Removal of foreign body, to prevent scratching- Stability of the measured object
Does not match with the actual values shown	<ul style="list-style-type: none">- Instrument not calibration- Is not set zero before weighing- Scale body is not level	<ul style="list-style-type: none">- Calibrated instrument- Press zero before weighing- Adjust the level of the scale body