

USER MANUAL

TWT - 01



Specifications:

1.Accuracy: Class III

2. Sensitivity:1.5~3.0mV /V3. Nonlinear: ≤0.01%F.S

4. Working Voltage: DC:5V

5. Speed: 10times/seconds(optional)6. Internal Resolution:500000~1500000

Power Source

100~240V 50/60hz AC INPUT12V/1A DC OUTPUT6V/4AH Lead-acid rechargeable battery included

Low battery warnings

The display battery symbol lights up when battery voltage is lower than 5.6 V The display battery symbol starts to flash when battery voltage is lower than 5.5V The scale will shut off automatically when battery voltage is lower than 5.4V

Preparation:

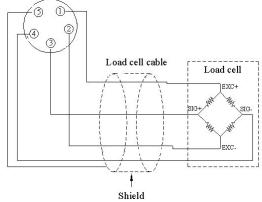
- 1. Please send this product is placed in the firm and flat place, don't place in vibration or shaking. And adjust four feet to keep the product stable, adjust the level bubble to keep it in the level place.
- 2. Please use the current independently to avoid the interference of other electronics.
- 3. Please put nothing on the plate when switch on the power.
- 4. Please turn on 2-3 minutes before using.
- 5. Please avoid setting the products in the place where the humidity changing is over 80%.
- 6. Please put the things in the middle of the plate to keep the accuracy.

Power Consumption

- 1. Approx.12mA
- 2. Approx.36mA with backlight
- 3 . Approx.48mA with backlight and RS232 interface
- 4. Battery hours per charge: Approx.120hours

Load cell connection (for indicator)

- 1. The plug of load cell, see the following drawing
- **2.** Do not plug the connection when the indicator is on to protect the indicator and load cell.



PIN 1: EXC+ PIN 2: EXC-PIN 3: SIG+ PIN 4: SIG-

PIN 5: SHIELD

Counting function specification

If in unit setup mode, set the pieces, then activate counting function, operate specification as below:

- 1. Press 【UNITS】 key for two seconds, it shows "0" in the display. At the same time, the light of "PCS" is lit up.
- 2. Press [net/gross] key, it shows "10", press [net/gross] key, choose the quantity of the sample in turn.
- 3. Put the goods on the plate, press [print] key to confirm, it shows the quantity of the sample in the display.
- **4.** In counting model, , press and hold 【UNITS 】 key to back to weighing model.

Remark: The unit weight of the sample is less than 0.2d, it can not do the sample.

Function Key:

OFF: Press and hold the **OFF** key, the display will show "off" for 2 seconds then the scale will turn off automatically

ON: Turn on the scale

UNITS/ESC: Units: To select desired weighing unit.

Esc: To escape setting in setup mode.

ZERO/**◄**: ZERO: To reset the weight to 0, but the displayed weight value has to

be less than $\pm 2\%$ of maximum capacity.

: To move one space to the left or downward in setup mode.

TARE/: Tare: To subtract the container weight. Maximum tare = full capacity.

: To move one space to the right or upward in setup mode.

Net/Gross / ▲: Net/Gross: To see gross and net weight when the scale is on tare status.

All other key will be disabled when gross weight is activated.

▲: To increase values upward in setup mode.

PRINT: Manually transmitting data through RS232 to computer or printer at normal weighing mode(RS232 setup must be set at keyboard transmission 232 3 or 232 6)

Functions keys of special kinds of scale(CWB22、CWT22):

PT: Press PT key, enter in the weight of the container and then put the container on the plate. It shows the weight of the goods in the display.

HI: To set check weighing high weight:

LO: To set check weighing low weight

I/O SET: To program check weighing I/O conditions

M+/**9**: Accumulation key

Press this key; it can accumulate the total weights and total times. In setting model, it means numeric number 9. It can accumulate at most 9999 times.

RECALL/6: To display total accumulation count and total accumulated weight. In setting model, it means numeric number 6.

MC/3: Memory Clear key to clear all accumulated weight data (When the weighing unit is changed (ex: from kg to lb), all accumulated data will be cleared automatically) (display cursor M+ lights off). In setting model, it means numeric number 3.

SAMPLE/8: press this key to enter in sample mode. In setting model, it means numeric number 8.

<u>COUNT/5</u>: Counting key. Press this key to enter in counting mode. In setting model, it means numeric number 5.

† /2: To select "Lit. A" auto backlight, "Lit. on" backlight ON or "Lit oFF" backlight OFF. Works as numeric number 2 in setup mode

CE: Clear key

Standard functions operate

1. Display internal value and voltage

In weighing mode, press and hold 【Tare】key, and then press 【Print】key, display UF-1, and then press 【Print】 key, display internal value, and then press 【Print】 key, display BAT X.X,X.X which means battery voltage. Press 【UNITS】 key twice to back to weighing model.

2. Check Weighing

In weighing mode, press and hold 【Tare】key, and then press 【Print】key, display UF-1, and then press 【Tare】key, display UF-2, press 【print】key, display 00000L, set low weight, press 【print】key, display 00000H, set high weight。 press 【print】key, it shows b 000 to set the condition of beeping.

The method of setting high or low weight: press I net/gross I key to change number, press I ZERO I key to move cursor to left or press I tare I key to move cursor to right. And the low weight must be less than the high weight.

3. Auto power-off

In the weighing model, press and hold tare key, and then press print key, it shows UF-1. Press tare key twice, it shows UF-3. Press print key, it shows A OFF 00, press zero key to move cursor to left or press tare key to move cursor to right. Press net/gross key to add number, the number means the time of power off. For example, the setting number is 01, when the weight in the plate is less than 9d and the indicator does not work in one minute, the indicator will be power-off automatically. Press print key to confirm, and press units key to back to weighing model.

4. Backlight

In the weighing model, press and hold tare key, and then press print key, it shows UF-1. Press tare key for three times, it shows UF-4. Press print key, it shows Lit A (auto backlight). Press net/gross key, it shows Lit on (backlight on), Lit OFF (backlight off). Press print key to confirm, and press units key to back to weighing model.

5.RS 232 (option)

In the weighing model, press and hold tare key, and then press print key, it shows UF-1. Press tare key for five times, it shows UF-6. Press print key, it shows 232 0(factory default: no), Press print key to choose 1-10:

Form	Output	Form	Output
1		2	
232	Stable output	232	Stable output
1		4	
232	Stream output	232	Stream output
2		5	
232	Press [print] key output	232	Press [print] key output
3		6	
Form	Output	Form	Output
3		4	
232	Accumulative output	232	Accumulative output
7		9	
232	Auto-accumulative	232	Auto-accumulative
8	output	10	output

6. Weighing speed

In the weighing model, press and hold tare key, and then press print key, it shows UF-1. Press tare key for six times, it shows UF-7. Press print key, it shows SPEEd 1 (factory default), press net/gross key to choose 1-3.

1: standard speed 2: fast speed 3: slow speed

7. Display condition at zero

In the weighing model, press and hold tare key, and then press print key, it shows UF-1. Press tare key for seven times, it shows UF-8. Press print key, it shows ZP 1, press net/gross key to choose 1-5, the number means the quantity of divisions not display at zero. Press print key to confirm, and press units key to back to weighing model.

8. G value

In the weighing model, press and hold tare key, and then press print key, it shows UF-1. Press tare key for eight times, it shows UF-9. Press print key, it shows -00-, and then shows 9.79423 (G value of the manufacturing place). And then press print key to adjust the G value of the using place, the first number in the left begins to twinkle, and press net/gross key to choose the number. Press ZERO key to move cursor to left or press tare key to move cursor to right. Press print key to confirm, and press units key to back to weighing model.

Calibration:

1. Weight and zero calibration

In the weighing model, press and hold [print] key, and then press [ZERO] key, it shows ECF-1. Press [print] key, it shows CALZ to begin zero calibration. Press [print] key, it shows the weight which was calibrated last time. Use numeric key to change the weight, and then put the required weight on the plate. And then press [print] key to finish calibration.

2. Zero calibration

In the weighing model, press and hold 【print】key, and then press 【ZERO】key, it shows ECF-1. And then press 【net/gross】key, it shows ECF-2. Press 【print】key, it shows CAL Z. Press 【print】key to calibrate zero and back to weighing model.

3. Weight calibration

In the weighing model, press and hold 【print】 key, and then press 【ZERO】 key, it shows ECF-1. And then press 【net/gross 】 key twice, it shows ECF-3. Press 【print】 key, it shows the weight which was calibrated last time in the Weighing Window. Use numeric key to change the weight, and then put the required weight on the plate. And then press 【print】 key to finish calibration.

Error Messages

Err H	Initial zero too high (over 10% of max. cap.)	
Err L	Initial zero too low (less than 10% of max. cap.)	
Err N	Unstable internal value	
hhhhhh	Overload, over the max. capacity + 9d	
	Total price exceeded 999999	

Remark

A: Buzzer on: 0= Stable not required 1= Stable required

B: LCD indicator and RELAY on: 0= Stable not required 1= Stable required

C: Buzzer beeps when: 0= Buzzer off 1= OK 2= LO and HI