

**COUNTING INDICATOR user manual**

**Model: TCI-01**

***Tiger***

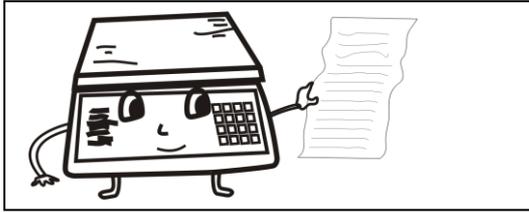
Please read this manual carefully before operation

---Important safety info

---Operating condition and other attentions

---Guarantee info

## Important Safety And Operation Info

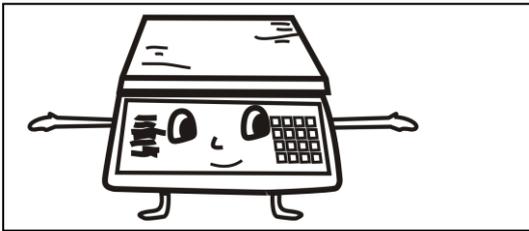


Please use the right plug and right voltage

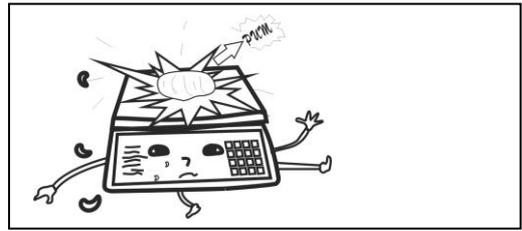


Please read the manual in details before operation

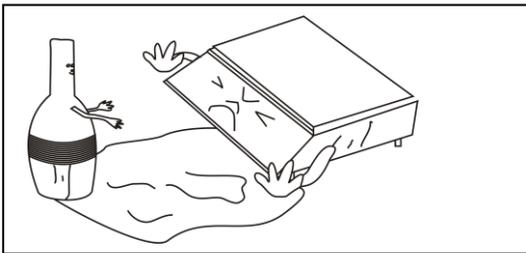
Be much attention of 110V or 220V!!!



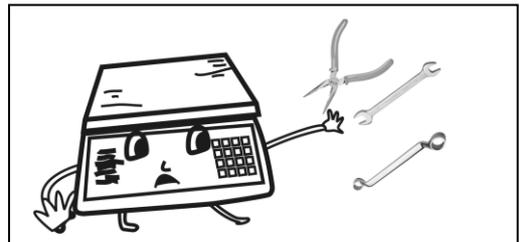
Adjust the bubble level on the balance position



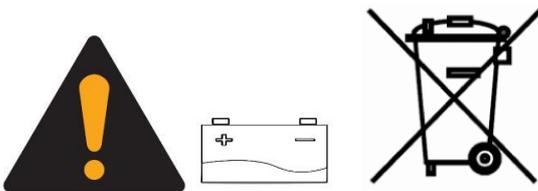
Don't hit the platform rudely and overload



Don't put the chemical liquid or other liquids to avoid damage to the scale



Don't open the scale by yourself and please call the service people or our distributor when you get the problem



Please recharge the scale on time to assure the health of the battery, and replace the battery if it runs out of life. The replaced battery must be handled correctly.

## INDEX

Specifications	4
Power	4
Before using	4
System power consumption	4
Display description	4
Basic function operation	5
Basic parameter setting	6
UF-1 Internal value and battery voltage	6
UF-2 Piece weight auto-average	7
UF-3 Auto-power off	7
UF-4 Backlight setting	7
UF-5 Accumulation	7
UF-6 RS-232 output	8
UF-7 Speed setting	9
UF-8 Zero tracking	9
Weight Calibrations	10
ECF-1 Zero and Span Calibration	10
ECF-2 Zero Calibration	10
ECF-3 Span Calibration	10
Guarantee	11

## **SPECIFICATIONS**

Accuracy: Class III  
Nonlinear:  $\leq 0.01\%F.S$   
System working voltage: DC:5V  
Communication interface: RS232  
Sample rate: 30 times per second (can select)

## **POWER**

Input: 120~240V  
Output: 12V/1A  
Rechargeable battery: 6V/4AH

## **BEFORE USING**

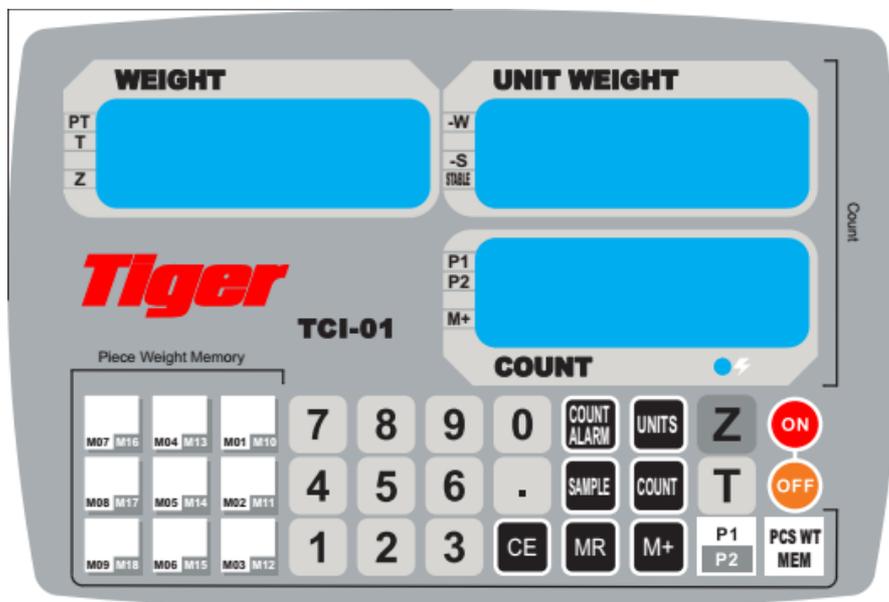
- 1) Place this product on a firm and smooth place, don't place it in vibration or shaking, use bench for use on four only adjust foot, adjust the balance using the bubble level.
- 2) Use independent source, avoid other electrical disturbance.
- 3) Don't put any object on the platter when turn on the balance.
- 4) Please, turn on 2-3 minutes before using.
- 5) Avoid temperature change too large and air flow strenuous sites.
- 6) Don't overload the balance, don't exceed the maximal capacity.

## **SYSTEM POWER CONSUMPTION**

Main system power consumption: about 12mA  
Main system power consumption (with backlight): about 36mA  
Main system power consumption (with backlight and RS-232): about 48mA  
Battery life: none backlight, about 320 hours.

## **DISPLAY DESCRIPTION**

TCI-01 Model:



## BASIC FUNCTION OPERATION



Press and hold this key for 2 seconds to turn off the balance.



Press this key to turn on the balance



To select desired unit in setup mode



**Function 1.** To reset the weight to “0”, but the display value has to be lesser than  $\pm 2\%$  of maximum capacity.

**Function 2.** To move one space to the left or downward in setup mode.

**Function 1.** To subtract the container’s weight.

**Function 2.** To move one space to the right or upward in setup mode.



**Function 3.** Preset Tare:press the key when no object on the pan,use 0~ 9 number keys to key-in the desired preset tare weight value, press the key to confirm.

**Function 4.** Clear Preset Tare:press the key to clear the preset tare when no object on the pan.



Use 0~9 number key and decimal key input piece weight,then press the key to confirm.



When place object onto the pan,use 0~9 number key and decimal key input sample quantity,then press the key to confirm.



**Function 1.** Press the key when total count window displays pieces,when the number exceeds this value,piece weight window displays -qhi - --, and the buzzer start to alarm.

**Function 2.** Clear count alarm:press and hold the key will clear count alarm when buzzer beeps twice.Or when the total count is 0, press the key will clear count alarm.

**Function 1.** Total accumulated weight and total count, max accumulation count can accumulated 99 times.



**Function 2.** Key of confirmation in setup mode.

**Function 3.** Manually transmitting data through RS232 to computer or printer.



Input piece weight and press the key,then press one of the PLU memories, the piece weight will be saved in the appointed number.

To change save piece weight, just repeat the same steps.

- P1** Group key:CCT10 can switch between M01-M10 and M11-M20.
- P2** CCT20 can switch between M01-M20 and M21-M40.

- CE** **Function 1.** To clear the piece weight.
- Function 2.** To exit from setup mode.

- MR** **Function 1.** Press the key can display total accumulation count ,total accumulated weight and total count.
- Function 2.** Clear accumulation:press and hold the key until buzzer beeps twice, then clear accumulation.

## **BASIC PARAMETER SETTING**

To access to functions setting, press the **M+** and **T** key at the same time in weighing mode.Press the **T** key to select the parameter (UF-1 ~ UF-8)

### **UF-1 Internal value and battery voltage**

1. Press the **M+** key,the weight window will displays the internal SPAN value,such as  ,piece weight window displays battery actual voltage,such as  , total count window displays the A/D internal value, such as .
2. Press the **CE** key to return back to .
3. To move to next parameter press the **T** key.
4. To exit and return to normal weighing press the **CE** key.

### **UF-2 Piece Weight Auto-average**

Modes:  : Piece weight auto-average disable.  
 : Piece weight auto-average enable.

1. Press the **M+** key to enter.
2. The display will show .
3. Use the keys 1 or 0 to enable or disable auto-average function.
4. Press the **M+** key to confirm.

### **UF-3 Auto-power off**

Modes:  : Auto-turn off disable.

: The balance will automatically turn off after 1 minute of non use.

This time can be set up to 99 minutes.

1. Press the  key to access to auto-power configuration.
2. Use the keys 0~9 to enter auto power-off time.
3. Press the  key to confirm.

#### UF-4 Backlight setting

Modes:  : Automatic

: Backlight on

: Backlight off

1. Press the  key to access to backlight configuration.
2. Use the keys 0~2 to select the desired mode.
3. Press the  key to confirm.

#### UF-5 Accumulation

Modes:  :

A B

Remarks:

A: 0 Stable required

1 Stable not required

B: 0 The weight has to return to zero to accept next accumulation

1 The weight does not have to return to zero to accept next accumulation

2 No tare weight to accept next accumulation

1. Press the  key to start.
2. Use the keys 0~2 to select the desired mode.
3. Press the  key to confirm.

#### UF-6 RS-232 Output

Modes:  :

A B

Remarks:

A: 0 Baud rate 1200

1 Baud rate 2400

2 Baud rate 4800

3 Baud rate 9600

4 Baud rate 19200

B: 0 RS232 output disable

1 Manual output – Format 2

2 Stable output – Format 1

3 Stream output – Format 1

1. Press the **M+** key to enter.

2. Use the keys 0~4 to select the desired mode.

3. Press the **M+** key to confirm.

Remarks:

Format 1 output examples : 

ST, GS, + 1.0001b
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Format 2 output examples :

ITM	1
GW+	3.0001b
TW+	1.0001b
PTW+	0.0001b
NW+	2.0001b
APW	0.1 1b
QTY	20 pcs
=====	
T. I	1
T. W	2.0001b
T. Q	20 pcs

Format 2 if you want to print the accumulated data, press and hold the **MR** key.

Communication Protocol:

UART signal of EIA-RS232 C

Format:

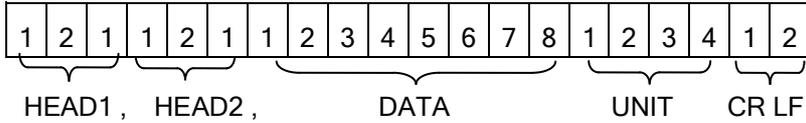
1. Baud rate: 9600
2. Data bits : 8 bits
3. Parity bits: None
4. Stop bits : 1 bit

Format 1 (232 32 – 33):

HEAD1 (2 BYTES)	HEAD2 (2 BYTES)
OL – Overload	

ST – Stable	NT – Net weight
US – Unstable	GS – Gross weight

Fixed 20 BYTES ASCII



### UF-7 Speed setting

Modes:  : Low speed  
 : Standard speed  
 : High speed

1. Press the **M+** key to enter.
2. Use the keys 0~2 to select the desired mode.
3. Press the **M+** key to confirm.

### UF-8 Zero tracking

Modes:  : OFF  
 : One division tracking at zero  
 : Two division tracking at zero  
 : Three division tracking at zero  
 : Four division tracking at zero  
 : Five division tracking at zero

1. Press the **M+** key to enter.
2. Use the keys 0~5 to select the desired mode.
3. Press the **M+** key to confirm.

## Weight Calibrations

1. In weight mode, press the **Z** and **M+** keys, the display will show  .
2. Press the **Z** or **T** key to select ,  or  .

### ECF-1 Zero and Span Calibration

1. Press the **M+** key to enter, display will show  and internal value, such as .
2. Press the **M+** key to calibrate zero point.
3. The display will show the calibration weight  and internal value, such as .
4. Use the keys 0~9 keys to enter the weight to be calibrated.
5. Put the calibration weight on the platter and press the **M+** key to calibrate.  
The scale will return back to weighing mode automatically.

### ECF-2 Zero Calibration

1. Press the **M+** key to enter, display will show  and internal value, such as .
2. Press the **M+** key to calibrate zero point.
3. The scale will return back to weighing mode automatically.

### ECF-3 Span Calibration

1. Press the **M+** key to enter, display will show the calibration weight  and internal value, such as .
2. Use the keys 0~9 keys to enter the weight to be calibrated.
3. Put the calibration weight on the platter and press the **M+** key to calibrate.  
The scale will return back to weighing mode automatically.

## GUARANTEE

This scale is guaranteed for one year from the delivery date. The guarantee covers any fabrication defect of the material.

During this period Gravity covers the labour cost and the spare parts necessary for the reparation of the scale.

This guarantee does not cover the failures caused by an inappropriate use or overcharge.

**The guarantee does not cover the freight cost (transport) necessary to repair the scale.**

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