

# **TCW-01 Checkweigher**

**user's manual**

***Tiger***

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## I. Introduction

Thank you for purchasing the automatic dynamic scale products produced by our company.

**Suggestion:** If you want to make the most of this dynamic scale and give full play to all the functions of this set of equipment, please read this manual carefully before using it; and use it as much as possible to guide your work. The following people should be familiar with this manual:

**Please read carefully the safety regulations in this manual before operation.**

### 1. Note:

In the case of neglecting the description in this manual, the company is not responsible for the problems, damages and accidents caused by it; similarly, the problems, damages and accidents caused by the modification of the system without the approval of the company, The company does not take any responsibility.

In particular, the company is not responsible for damage caused by:  
natural disaster  
Incorrect operation  
lack of maintenance, maintenance  
Electrical short circuit accident

When replacing a part, use a new part that meets the requirements. The parts need to be replaced during the service life of the parts to make full use of the equipment and avoid accidents.

### 2. Safety

#### 1) General safety details

The production supervisor of this equipment must have a deep understanding of safety and must educate employees as follows:

Safety and accident prevention methods  
What special operation is required for the device

#### 2) Select qualified operators

Only reliable personnel can operate this equipment. The users must be trained and their responsibilities (operation, preparation, maintenance) must be clear. Make sure that unauthorized personnel do not use the equipment.

Only qualified electricians can wire the electrical system of the device, and electrical precautions must meet national safety standards. According to the required power supply, regularly check the cables, instruments and meters of different loads.

#### 3) Use safety rules

Never use the device in an unsafe environment and take effective measures to ensure that the device operates in a trouble-free and safe condition.

Before starting, check that there are no obvious defects on the safety device.

Machine is not allowed to make abnormal sounds. If there is any, it should be stopped immediately and the reason checked;

Encountering a fault, stop the equipment / system operation immediately and clear the fault as soon as possible.

Not wear clothing that may be caught by moving parts, such as scarves, watches, etc.

Long-haired people should have a hood to access the device;

Wear work clothes and work caps;

#### **4) Security inspection**

After the maintenance work is completed, the supervisor should thoroughly check that the operation is normal before starting the machine.

### **3. Warning**

When machine is running, someone must monitor it. Do not use tools or other objects to approach the machine. When there is an error in the equipment or indicator, replace it in time. Otherwise, the equipment cannot meet the requirements.

Inspection and maintenance, it should be performed by specialized mechanical and electrical maintenance personnel after the power switch is turned off.

Not allowed to push the equipment, and non-professionals are not allowed to separate the upper and lower scale bodies, otherwise it will damage the sensor or reduce the accuracy of the sensor.

Before moving, you need to use the limit device. When moving, you should apply even force to the lower part and move it as a whole. After moving to the target position, open the limit device.

Do not let unrelated personnel approach the equipment

Do not clean the electrical unit with water and other liquids

When the electrical system is overhauled, the power should be cut off and the machine well grounded

When the power is off, make sure that no accidental power-on occurs

### **4. After- sales service**

The company implements a one-year warranty and lifetime technical support for this device; when maintenance is required, please provide the following details:

Details of failure

How to diagnose

Corresponding troubleshooting

Other related usage information

This manual only provides suggestions for the use of this equipment. The company reserves the right to modify the manufactured products for manufacturing and commercial reasons without updating this manual and spare parts list.

Please keep this manual into the next dynamic weighing , inspection time for easy operation.

## II. Operation

### 1. Overview

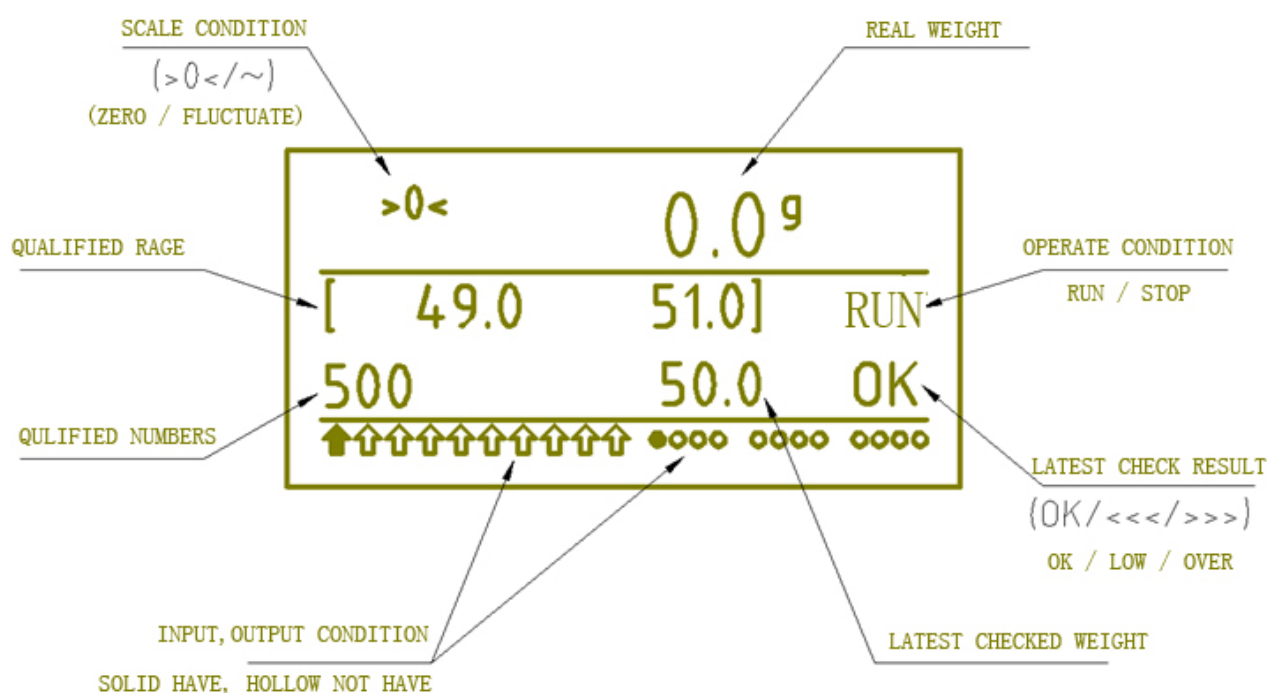
TCW- 01 series checkweighers are specially designed for daily checkweighing, sorting, and batch product production lines of daily chemical, chemical, food and beverage, pharmaceutical and other production lines to check whether they are underweight, thereby ensuring product quality.

The maximum detection weight of this device is 5000g (subject to the parameters actually set!). The motor power is 100w .

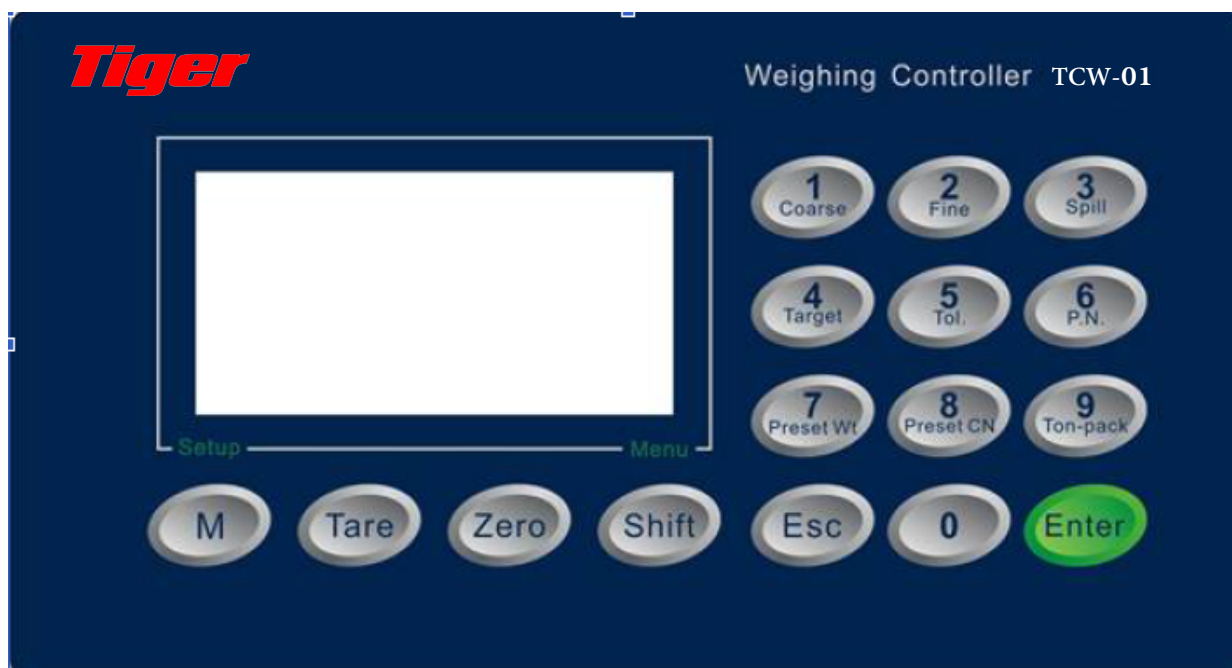
### 2. Parameter setting

Before the normal production, please set the product parameters of the products produced according to the requirements. If you do not change the product specifications, you usually do not need to reset the parameters.

#### 1) Desktop display instructions



## 2) Common settings



Set key	content
Number keys ' 7 ' and ' 9 '	Set the lower limit and upper limit of qualified weight (generally customers only need to set this parameter in use).
Number key ' 8 '	Set the correction coefficient KX (the default is 1000 , do not change this value during use!).
Function key ' M '	Enter the preset parameter menu interface; Select up in the menu bar.
Function key ' Tare ' (in stop state)	Real-time weight tare manually. Not recommended for use.
Function key ' Zero ' (in stop state)	Manual weight reset in real time.
Function key ' <> '	Switch desktop display mode; Select down in the menu bar.
Function key ' Esc '	Cancel or return to the previous menu
Function key ' Enter '	Confirm or enter the input.
Long press number key ' 0 '	Cumulative reset.
Long press function key ' Setup '	Enter the meter's main menu interface.
Long press function key ' Tare ' (in stop state)	Enter the calibration menu interface.
Long press function key ' Menu '	Enter the meter application menu interface.

### 3) Set the upper and lower limits

Use the shortcut keys ' 7 ' and ' 9 ' to set the lower limit and upper limit of acceptable weight.

### 4) calibration

When the machine is stopped, press and hold the function key ' Tare ' on the desktop to enter the calibration interface. Clear the weighing platform and calibrate the zero point. After calibrating the zero point, put a weight on the scale, enter the weight of the weight, and perform the calibration range.

### 3. Equipment installation

- 1) The equipment contains precision instruments. Be careful when moving and moving. After the equipment is placed, adjust the level to ensure that the four supporting feet are under the same force, and then tighten the nuts.
- 2) Loosen the screws transportation limit, release the bottom of the rack . 1 branched M8 screws, then loosen the screws 4 turns. (You cannot use a wrench to tighten the nut.)



### 4. Run operation

#### 1) Security inspection

In addition to complying with the requirements in the foreword, the following items need to be checked:

Check if there is any obstacle in the moving part, if there is any out body jamming, and if the belt is scratched?

Check if screw connecting the sensor loose?

Check if the electrical components are intact.

#### 2) Device clear

Turn on the power switch to clear the meter if it is not zero.

#### 3) Get started

When the start-stop switch is set to the running position, normal production can be performed. Under normal production conditions, qualified products are delivered in one direction. When the products are unqualified, the unqualified products are delivered to the other direction.

### 3) Check the operation of the controller

#### 1) Power on

Press the power switch on the side of the control cabinet to supply power to the system. After the power is turned on, the power indicator on the control panel lights up and the system starts

At this time, the check weighing controller will automatically perform power-on reset at this

time, and then enter the standby state;

## 2) work

Put the start-stop switch in the 'Run' position, and the system enters the running state;

When it is detected that the packaging bag enters the weighing platform, the result is obtained after delayed sampling;

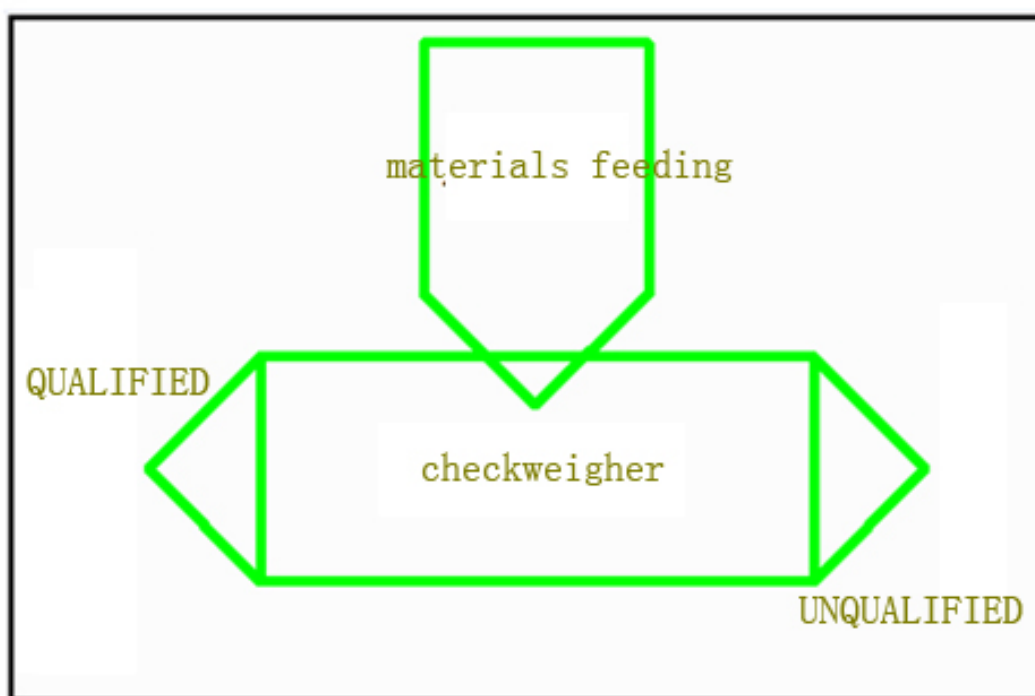
If the bag weight meets the range requirements, the controller outputs a qualified signal, and the belt runs to transport the item out of the qualified direction; the result is counted into the qualified number and qualified total weight;

If the bag weight does not meet the range requirements, the controller outputs a failure signal, and the belt runs to transport the item out of the failure direction; the result is counted into the number of failures and the failed weight.

## 3) stop

Set the start-stop switch to the 'stop' position, and the system enters the static weighing state.

## 4) Work flow



# III. Maintenance

## 1. Maintenance and maintenance interval

time interval	content	Required standard
weekly	Thoroughly clean belt dust and dirt	Suction, blowing and wiping
Every three weeks	Check the belt tightness	Rotate the conveyor belt to see the transmission of the belt
Every three months	Check motor	No abnormal sound
Every 12 months	Check the working condition of the bearing	Grease or replace