

**TCS-B SERIES OF PLATFORM SCALE**  
**INSTRUCTION MANUAL**



## 1. Introduction

1.1 The TCS series logistic scales are equipped with high precision load cells as the primary instrument, the secondary instrument is designed by using new technology and new materials such as 8951 single-chip microprocessors as the main chip and A/D converted with three-integral or  $\Sigma - \Delta$  module conversion.

## 2. Measuring Performance

### 2.1 Accuracy

2.1.1 Class III

2.1.2 Precision: 1/3000F ● S~1/30000F ● S (according to scales model)

## 3. Electrical Characteristics

### 3.1 Alternating current characteristics

3.1.1 Working voltage: 110V (+10%~-15%);

3.1.2 Power frequency: 60±2%Hz

### 3.2 Direct Current characteristics:

3.2.1 Storage battery capacity: 6V 4Ah

3.2.2 Rated Voltage: DC6V

3.2.3 Backup power nonstop service time: Not shorter than 10 hours after complete charge.

## 4. Display Characteristics

4.1 Display windows of weight platform scale: 6 digits

## 5. Operation

Preparation before use:

5.1 Put the scale on a solid and smooth platform. The scale should avoid vibration, strong air current, direct sunshine and high temperature.

5.2 Adjust the four legs to make sure scale is level and that all legs are touching the floor.

5.3 After connecting with AC power, please check whether the AC indicator lamp lights up, if not, check the relevant parts.

5.4 After powering on, the scale will do a self-check immediately; during which you can find whether display and zero position is normal.

## 6. Operation for weight platform scale (TCS-B series)

6.1 Zero – press [zero] when the displayed value of the empty scale is  $\leq 4\%$  F.S and the zero indicator lamp will light up

6.2 Tare – press [tare] when gross weight is positive ( $\leq 100\%$  F.S) and tare indicator lamp will light up. When removing all tare weight and press [tare], the scale will return back to mode without tare.

- 6.3 Hold – press [hold] at any time when weighing, the displayed value will be locked and will not change with weight. Meanwhile, the indicator lamp will light up. Press [hold] again to exit holding mode. Under holding mode, the indicator will still alarm when overloaded, although the displayed value is unchangeable.
- 6.4 Add – When there is a stable weight; press [add] to accumulate the value. When the scale is empty, press [add] to display adding value and times.
- 6.5 Accu – press [accu] to clear the latest adding value.

## **7 Count**

- 7.1 Count sampling – turn on the scale then go to the weighing mode, put the samples on the platform (the quantity could be 10/20/50/100/200/500/1000), press and hold key [pcs] until the display shows “P-XX”, press [unit] and [hold] to adjust the data the same as the quantity on the platform. Press key [pcs] it will display the quantity which is on the platform.
- 7.2 Count – put the count goods, and then the weight indicator window will display the quantity of goods.

## **8 Environment temperature:**

- 8.1 Transportation or storage: -13°F - 122°F
- 8.2 Work: 32°F - 104°F

## **9 Environment humidity:**

- 9.1 Transportation and storage: <70% R H (Non-dew)
- 9.2 Work: <90% R H (Non-dew)

## **10 Attention:**

- 10.1 Never put the electronic scale in the rain, or flush it with water. Particularly, the inner parts of the scale should not touch the water.
- 10.2 Do not put the scale in a place with high temperature or humidity.
- 10.3 Avoid any strong shock or heavy weight (exceeding the maximum weight).
- 10.4 Please charge the storage battery in time after using it to avoid damage. The charge time should be at least 1.5 hours for using one hour. If the scale will not be used for a long period of time, please do not forget to charge the scale for a consecutive 24 hours every 2 or 3 months to avoid damage caused by self-discharge of storage battery (when the scale is connected to AC power, the system will charge the storage battery automatically, even if the scale is turned on or off).
- 10.5 Please use the provided regulated power supply.
- 10.6 If the scale is operating abnormally, please contact Sav-on Bags for assistance. Don't open the scale and attempt any repairs, as doing so will void the warranty.

## 11 Troubleshooting:

<b>Problem</b>	<b>Description</b>	<b>Reason</b>	<b>Solution</b>
AC indicator lamp doesn't light up	Failure to connect to AC power	<ol style="list-style-type: none"><li>1. Poor contact with the power plug</li><li>2. Broken power cord</li><li>3. Blown fuse</li></ol>	<ol style="list-style-type: none"><li>1. Insert the plug completely or change socket</li><li>2. Change power cords</li><li>3. Replace fuse</li></ol>
While using storage battery, there is no display or sound when turning on	No DC power to the scale	<ol style="list-style-type: none"><li>1. Damaged storage battery, or no voltage</li><li>2. Poor wire contact to storage battery</li></ol>	<ol style="list-style-type: none"><li>1. Replace storage battery</li><li>2. Check and fix wiring to storage battery</li></ol>
Display "--Lb--" with alarm sound and turns itself off automatically	Insufficient voltage to battery	Low Battery	Charge the scale by connecting the AC power supply