



## OPERATION MANUAL



# TPS<sup>®</sup>

### THỊNH PHÁT SCALE ELECTRONIC JOINT STOCK COMPANY

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#### Note:

1. Please recharge the scale before first operation.
2. Please warm-up the scale over 5 minutes.

## Specification

### 1. TPS LC

Model	TPS3LC	TPS6LC	TPS15LC	TPS30LC
Capacity	3Kg	6Kg	15Kg	30Kg
Division	0.1g	0.2g	0.5g	1g
Mini. Cap.	10g/4g/2g	20g/10g/4g	40g/20g/10g	100g/40g/20g
Pan size	(285 x 240) mm			
Dimensions	(294 x 360 x 110) mm			
Tare Range	0-100% of full scale capacity			
Loacell	LAB			
Display	LCD			
Calibration	External calibration			
Packing	6 sets/carton			
Carton size	64*36*42.5cm=0.10m <sup>3</sup>			
Power	AC: 110V/220V; DC:4V 4Ah			
product	TPS OEM			

## Preparation

This product is intended for indoor use.

- Select a suitable work area.
- Work area should be relatively free from drafts and vibrations.
- Work surface should be level and rigid.
- Do not locate near magnetic materials or equipment/instruments which use magnets in their design.
- Avoid areas which have variations in room temperatures or have excessive room temperatures. Room temperatures above 40° C or 0° C could affect instrument operation and accuracy.

## Program settings

Password “4 1 5” to enter,

The key “check set” to enter and confirm;

The key “SAMPLE” to choose or to next step.

Display	Option	Parameter
diu-Fun_01	Division	1 2 5 10 20 50
Pnt-Fun_02	Decimal point	0 0.0 0.00 0.000 0.0000
CAP-Fun_03	Capacity	If cap is 30kg, 30.000
LnE-CAL-Fun_04	Calibration	only use for distributor
trA-Fun_05	Zero-tracking	0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5
uSr-Fun_06	----	End settings
Lit-Fun_07	Backlight switch	0: always has back light 1: no back light 2: back light during operation,
bud-Fun_08	Baud rate	2400 4800 9600* 19200 (9600,for connect to printer and PC)
odE-Fun_09	Print mode	0 (no) 1 (manual) 2 (automatically) 3(continuous) 4 (NLP manual) 5(hi-low print)
tPE-Fun_10	Communicate protocol	0-10, can compatible with main product in the market, for more information, please contact your distributor
CAh-Fun_11	Catch zero	0,1 default

## Calibration

uSr-Fun\_06 (Quick calibration)

When it display

Press the key

It display

Put any **STANDARD WEIGHT** on the pan, say 2kg weight.

After a little while,

it will display

the scale will finish calibration.

## Recharge

1. when to recharge
  - a. After turning on the scale or in usage, the figures keep shinning, which means the power of battery is not full. It is time to recharge. If it need to use, it may continue about ten hours.  
When the message “LoBA” appears in *the window of piece weight*, which indicate the power of battery is exhausted. Please turn off the power switch immediately and begin to recharge the battery to prolong its life.
2. Recharge Notes  
It will take 6-8 hours to full the battery.

## Maintenance

1. Please take good care of the scale for it's a precision instrument.
2. Place an object on the pan softly in less to destroy load cell for the power of moment hit is too heavy.
3. In order to keep the scale in formal; please recharge the battery in time.

You have purchased a quality precision weighing instrument that requires handling with care. Read entire contents of this **Operation Manual** prior to operating your new instrument.

## Disclaimer Notice

Calibrate your instrument using reference weights of the appropriate tolerance (class).

An instrument can be no more accurate than the standard to which it has been compared.

For assistance in the selection of reference weights, please contact the factory.

Caution: Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this equipment.

## Introduction

Thank you for choosing one of our instruments. Your instrument is designed and manufactured to the most rigorous standards in order to give you years of service. First, check the contents of the shipping carton. You should find the following:

**\*Manual    \*Instrument    \*Power cable**

Next, follow the instructions for installing your instrument.

Now you are ready to begin using your instrument. To take advantage of its many features, carefully read your operating manual. It contains step-by-step procedures, examples, and other vital information.

Warning: Use of this product in a manner not specified by the manufacturer may impair any safety protection provided by the equipment.

## E.Alarm functions

The scale can have weight alarm and quantity alarm

### 1. Basic Parameter settings for hi-low limitation (only use for distributors)

Press and hold the key “CHECK SET” till bi-bi sound.

The key “CHECK SET” is to confirm and to next step.

ITEM	display	Use “ZERO SHIFT ” to choose
1	Weight / count	to choose weight alarm or count alarm
2	H- L	- is the alarm position
3	Stabel	On: when value is stable, then alarm Off: scale will alarm even if the value is not stable
4	bLy	“ON” : The red and yellow backlight for alarm mode are turned on . "OFF": The alarm backlight are turned off.

### 2. Hi-low limitation settings (end user operation)

After making basic settings. Press the key “CHECK SET”, will display:

10.00g
Lin-hi

Please input the needed hi point value.

Then press the key “CHECK SET” , you can set the low point value.

9.00g
Lin-hi

**NOTICE: 1.Hi value must bigger than low value.**

**3. If you need to clear/change value, please use the key “CE”.**

## Function keys

On/ Off Switch

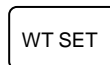
Turns instrument On or Off.



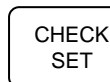
Numeric keys. Used for setting numeric data for tare weight. sample number, sample weight, or limit number of checking.



Used for parts counting.



Used for the alternation of changing normal counting and check operation.



Used for check quantity & weight.



Used for clear check preset.

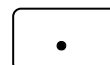


Reduce gross weight on pan as tare weight.

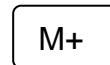


Capture the zero of the scale

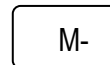
Shift from weight alarm to quantity alarm



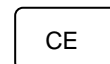
Used for set the decimal position of the tare weight, sample weight.



Memory accumulate



Memory clear



Clear all settings

## Operation

### A. Getting Started

Turn the instrument on by pressing the power switch on.

The display will down count from 999999... while the unit is being updated.

**Allow the unit to warm-up for 30 minutes.**

### B. Taring (zeroing)

All models have taring (zeroing) capabilities up to their total weight capacity.

If sample come with receptacle, but you just need to know weight of sample. Please use TARE key.

For reducing the tare weight from the scale, there are two methods, one is press button tare and the other is keyboard tare.

#### 1. Press button tare

Place the sample receptacle on pan and then press the key

and then ▼ will point to  and the WEIGHT display shows 0.

2. **Clearing the previous tare weight. Remove receptacle from the pan then press  key, and the WEIGHT display returns to zero.**

### C. Counting Function

#### 1. PIECE COUNT setting(e.g.)

a. Count the desired sample pieces(e.g.:20 pieces)and put on the pan.(sample size can be changeable)

b. Input the quantity of samples and Press the key

c. The averaged piece weight will be calculated automatically.

Now you can count bulks.

### 2. PIECE WEIGHT setting

(In case of piece weight is already known.)

a. Set the piece weight data by the numeric keys and decimal point key. The number to be shown in **PIECE WEIGHT** display with flickering.

b. Press the  key, the **piece weight setting** to be done.

c. Press the  key to cancel the **piece weight setting**.

### 3. PIECE WEIGHT too light alarm

▼ will point to **LS** and **AS**; when the averaged piece weight or set piece weight is not enough for accurate counting operation. Operator still can use the scale, but counting error may occur.

### D. Accumulation function

1. Press  key can be accumulating the sub-total piece counts one time. The next accumulation must be return to zero and got new piece counts.

2.Press  key can be used for alternation of changing normal counting and memory data recalling.

3.The  key can be used to delete all data in **Grand-Total**.