



**CÂN ĐIỆN TỬ THỊNH PHÁT**

**CÔNG TY CÂN ĐIỆN TỬ THỊNH PHÁT**

ADD: 57 Đường D1, Phường 25, Quận Bình Thạnh, TP.Hồ Chí Minh

# High Precision Balance

## Operation Manual

**HP: 0915.999.111**

TPS-TSE



# CÂN ĐIỆN TỬ THỊNH PHÁT

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Nếu khách hàng cần sự giúp đỡ nào xin vui lòng liên hệ đường dây nóng

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## I. Precautions Before Using The Scale

1. Do not let the scale get wet and do not place it in an environment with extreme temperature or humidity.
2. Do not shock the scale and do not exceed the capacity. \*Permanent damage can occur\*
3. Before using the scale, place it on a stable platform and adjust its feet to make the scale level.
4. Working conditions:
  - 1) The operating temperature should be: 0°C -40°C
  - 2) Power supply: AC220V±10% or DC6V4A.h storage battery
5. The AC power must be well connect to earth to ensure security. If you use DC power, you should recharge it timely. Please turn the scale off after used. If the power is low or the scale automatically power off, please charge the battery for a full 12 hours before use. Incomplete charging can damage the battery.

## II. Keypad Functions

Status 1	,	Status 2	,	Data	Unit	Newline
1 2		3 4 5		6 7 8 9 10 11 12 13 14	15 16 17 18	19 20

Status 1(2bytes)

**OL** – Overload

**GS** – Gross weight mode

**ST** – Stable

Data (8bytes)

2D(HEX)=" -" (minus)      2B(HEX)=" +" (plus)

2E(HEX)=" ." (decimal)    20(HEX)=" " (space)

Unit (4bytes)

g = 20(HEX); 20(HEX); 20(HEX); 67(HEX);

kg = 20(HEX); 20(HEX); 6B(HEX); 67(HEX);

lb = 20(HEX); 20(HEX); 6C(HEX); 62(HEX);

oz = 20(HEX); 20(HEX); 6F(HEX); 7A(HEX);

CR = OD(HEX); OA(HEX)

**EXAMPLE:** (Stable net +16.8g)

Status 1,	Status 2,	DATA	UNIT	CR
<b>ST</b>	<b>NT</b>	<b>+16.8</b>	<b>g</b>	<b>OD,OR</b>

## 9. **Instructions Of Charge**

When the voltage of power is low, the Power-LOW LED is lighten; please reuse it after charge it for 12 hours. The charge indicator (LED) is yellow when charging and it will turn red when fully charged. To ensure the power is in full, we recommend charging an extra 3-4 hours.

key to show "0"; place a weight (equal to or more than 2/3 of the Max. Capacity) on the tray; press  to shift; press  to change the numeric; press  to confirm the entered. Now the calibration is end.

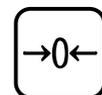
## 8. Instructions of serial communication (optional)

### 1) The Setting of serial communication

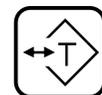
Turn the scale on; press and hold  key until the end of self-test to enter the select of baud rate parameters. There is three classes to be selected — **2400bps**, **4800bps**, **9600bps**; the display of screen is **bAud 24**, **bAud 48**, **bAud 96**. Press  key to select and  key to confirm.

Then enter the setting of the mode of data transmission. There are two kinds to be selected — **St** (output once when the reading is stable), **Co** (continue output). Press  key to select and  key to confirm.

### 2) Instructions Of Data Format Of Serial Communication



: Zero key. In weighing mode, press this key will reset Zero; when setting parameters, press this key to save and go to next setting.



: Tare key. In weighing mode, press this key will subtract the weight of containers; when setting parameters, press this key to select parameters.



: Unit conversion key.

## III. Operations

### 1. Turn the scale ON

Remove all the objects on the tray; push the power switch to "ON" position. The scale will self-test and zero, then turn to weighing mode.

### 2. Turn the scale OFF

Push the power switch to "OFF" position to turn the scale OFF.

### 3. Zero function

During using the scale, the weight displayed isn't "0", but there is nothing on the tray. Please press  key to re-Zero and show the zero indicator. When the weight displayed is outside the range of 5% of Max. Capacity or the

scale is in tare mode, pressing the key is invalid.

## 4. Tare function

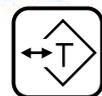
In weighing with container instance, please operate as following steps to get the net weight: place the container to the tray; press the key , then the weight displayed is "0", and the tare indicator is shown; place the objects needed to weigh on the tray, then the net weight of the objects is shown; take both container and objects off, the weight displayed is negative. Press  key again to cancel the tare mode.

## 5. Unit conversion

Press  key to select the unit you need (g, lb or oz), and the screen will show the corresponding indicator.

## 6. Setting parameters

1) When power-on self-test, press and hold  key until entered **the setting of filter parameters** (you can change the response speed of the scale by setting the filter parameters). There are ten classes—"n b0" ~ "n b9", to be selected. Press



key to select the parameters; press



key to

save the current set and go to next setting.

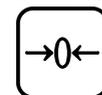
**Note 1:** The parameters "n b0" → "n b8" means that the response speed is slow → fast. "n b9" is fit for continuous weighing.

**Note 2:** The following settings use the same function keys as above.

- 2) **Select the range of zero tracking.** There are six classes to be selected — 0.0d, 0.5d, 1.0d, 1.5d, 2.0d, 3.0d.
- 3) **Select the range of displaying "0".** There are two classes to be selected — **Zero-S** (invalid) and **Zero-L** (when the weight within the range of ±3d, the display is "0").
- 4) **Select whether "0" will be shown while the weight within the range of -30d-0d.** There are two classes to be selected — **30d ON** and **30d OFF**.
- 5) **Select divisions.** The display of screen is "**d x.xx**" (x.xx is the value of division).

## 7. External Calibration

When the scale does not read accurately, you may calibrate it with weight. Turn the scale on; press and hold



until the end of self-test. It will show "**CAL**". Press

