

# User Manual

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**AEC** Series

*Digital Counting Scale*

## Symbols on LCD

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### ■ Indication of g 、 kg Weighing Mode (▼):

▼ Cursor flashes on the bottom edge of WEIGHT LCD (above of **g** or **kg** printed on the display-overlay), and indicates the present weighing mode.

### ■ NET Weight Indication (▼):

▼ Cursor appears on the bottom edge of WEIGHT LCD (above of **NET** printed on the display-overlay), and indicates the tare weight has been deducted.

### ■ Zero Indication (▼):

▼ Cursor appears on the bottom edge of WEIGHT LCD (above of **ZERO** printed on the display-overlay), and indicates the scale is at zero-point.

### ■ Insufficient Sampling-Quantity Indication (▼):

▼ Cursor appears on the bottom edge of UNIT WEIGHT LCD (above of **S.Q** printed on the display-overlay), and indicates the sampling-quantity (setup via [**SAMPLE**] key) is less than 10 pieces. The greater the sampling-quantity on the platter, the more precise the unit weight calculation.



## ■ Insufficient Unit Weight Indication (▼):

▼ Cursor appears on the bottom edge of UNIT WEIGHT LCD (above of **S.W** printed on the display-overlay), and indicates the averaging unit weight is too light.

The internal resolution of this scale is 60000. If the averaging weight per unit is less than “**max capacity / 30000**”, ▼ cursor will flash on UNIT WEIGHT LCD.

For example: With 15kg max capacity and an internal resolution of 30000,  $15\text{kg} / 30000 = 0.5\text{g}$ . If the average unit weight of measured subjects is lighter than 0.5g, ▼ cursor will flash on UNIT WEIGHT LCD (above of **S.W** printed on the display-overlay).

## ■ Battery Symbol ( ):

When WEIGHT LCD indicates  and the scale sounds **beep for four times**, it means the battery is running in low-voltage status. WEIGHT LCD will indicate  continuously for reminding the user to recharge the battery. If the battery is still running in low-voltage status without being recharged, WEIGHT LCD will indicate **-OFF-** and the scale will sound **beep for eight times**. Please power off the scale and recharge the battery right away.

# Operation Instructions \_\_\_\_\_

## ■ 0 ~ 9:

Press these keys to key in the unit weight.

## ■ ● :

- (1) Press this key to set the decimal point for the unit weight.
- (2) Press and hold [●] key till the scale sounds beep to enable or disable optional Backlight.

## ■ CE:

Press this key to delete the setting values of unit weight.

## ■ ZERO:

Press this key to make the scale be at zero-point. WEIGHT LCD will indicate ▼ cursor on the above of **ZERO** (printed on the display-overlay).

## ■ TARE:

Press this key could get the net weight. Place a package or container on the platter and press this key to deduct the tare weight, WEIGHT LCD will show **0.000** and indicate ▼ cursors on the above of **ZERO** and **NET** (printed on the display-overlay).

## ■ SAMPLE:

Press this key to confirm the sampling quantity.

Example:

Put 500pcs of screws on the platter; then key in 500; then press [**SAMPLE**] key once, the scale will calculate the averaging unit weight of 500 screws and show the value on UNIT WEIGHT LCD.

While putting another more pieces (less than 500pcs) of screws on the platter, the scale will re-calculate the averaging unit weight (UNIT WEIGHT LCD will clear the original value and then show the updated value). Please do NOT remove any thing from the platter till the updated value of averaging unit weight has been displayed.

## ■ WS:

Press this key is to set the value of unit weight. We suggest the unit weight should be heavier than the division (or sensitivity) of the scale. For a counting scale 6/15kg x 0.2/0.5g, the unit weight should not be lighter than 0.2g.

Example:

With the known unit weight at 10g, please key in **10**; then press [**WS**] once; then 10g will be indicated on UNIT WEIGHT LCD.

## ■ M+ :

1. Press this key could save the measured weight, total unit, and total weight into the memory bank.

## ■ PRINT:

When connecting with printer device, press this key will print out a accumulative weighing record.

***Notice: If the scale is not connected with outer Label Printer, this function WILL NOT be available.***

## ■ ALARM:

Press [**ALARM**] key to switch on / off this function.

### 1. Quantity Alarm:

<1> Press [**ALARM**] key 3~5 seconds, and Press [**TARE**] key to select *PCS / WEIGHT*.

<2> Press [**ALARM**] key to confirm type, [**TARE**] to choose [**Hi**],[**Lo**],[**IN**],[**OUT**] function, then press [**ALARM**] confirm.

**!! Notice:** The setting values under **PCS** mode, **-Hi-** and **-Lo-** must be **0**.

When the total quantity of measured subjects is  $\geq$  **00**, the scale will sound **beep** continuously.

## 2. Hi/Lo Weight Limit:

Example: setup Hi/Lo weight range at  $10\text{kg} \pm 500\text{g}$ .

- <1> Press [**ALARM**] key to select **-Lo-** (showed on UNIT WEIGHT LCD); then key in **9.500** (showed on WEIGHT LCD; then press [**ALARM**] key again to confirm the setting.
- <2> Press [**ALARM**] key to select **-HI-** (showed on UNIT WEIGHT LCD); then key in **10.500** (showed on WEIGHT LCD; then press [**ALARM**] key again to confirm the setting.

**!! Notice:** The setting value under **PCS** mode must be **0**.

The scale will sound **beep** continuously while:

**9.500**  $\leq$  the total-weight value  $\leq$  **10.500**

**-OUT:** beep on out of Hi / Lo values range

**-IN:** beep on in of Hi / Lo values range.

## 3. Over-Weight Alarm:

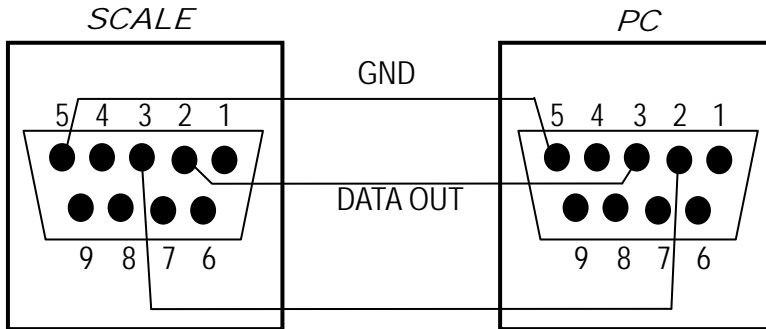
Example: setup 10kg as the over-weight limit.

Press [**ALARM**] key to select **-Lo-** (showed on UNIT WEIGHT LCD); then key in **10.000** (showed on WEIGHT LCD; then press [**ALARM**] key again to confirm the setting.

**!! Notice:** The setting values under **PCS** mode and **-HI-** mode must be **0**.

The scale will sound **beep** continuously when the measured weight is  $\geq$  **10.000kg**.

## RS232 Interface Connection: <optional device>



## RS232 Wiring Configuration:

Baurate: **9600**

Parity: **None**

Stop Bit: **1**

Data Bit: **8**



## Recharge the Battery \_\_\_\_\_

Power off the scale and connect the power cord to an AC outlet. **CHARGE LED** will indicate the ongoing status of the battery. It takes about **8~10 hours** to fully recharge the battery.

### **CHARGE LED:**

Color of LED	Status of the battery
RED	Initial Connection
ORANGE	Charging
GREEN	Fully-charged

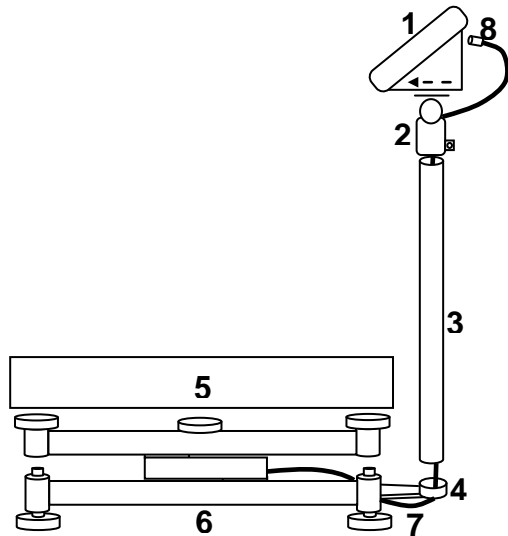
## Power Supply \_\_\_\_\_

- AC: 220V $\pm$ 10%, 50Hz
- DC: 6V/4Ah rechargeable battery;  
P=0.2W(max)

## **Installation Diagram of Bench Scale**

List of Components:

No.	Item
<1>	Indicator
<2>	Regulator
<3>	Stainless Steel Tube
<4>	Tube Base
<5>	Stainless Steel Platter
<6>	Main Structure
<7>	Cable of Load Cell
<8>	Connector



Installation Procedure:

- A. Screw <4> Tube Base and <6> Main Structure together *(with 2 screws of Tube Base)*.
- B. Insert <3> Stainless Steel Tube into <4> Tube Base *(with 2 screws of Stainless Steel Tube)*.
- C. Screw <2>Regulator and <3> Stainless Steel Tube together *(with 1 screw and 1 clip of Regulator)*.
- D. Please refer to the Diagram; pull <7> Cable of Load Cell, from the bottom to the top, through <3> Stainless Steel Tube; and then screw the Clip on the bottom of <4> Tube Base *(with 1 screw of Clip)*.
- E. Connect <1> Indicator with <2> Regulator. Notice the direction. Please refer to the arrow on the diagram for proper direction.
- F. Put <5> Platter on <6> Main Structure.
- G. Insert <8>Connector into the socket of <1>Indicator. Complete installation

**✖Before using this scale, please unscrew the protecting-screw fixed on the bottom side of the steel-welding base structure.**

***We do more than you expect***

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