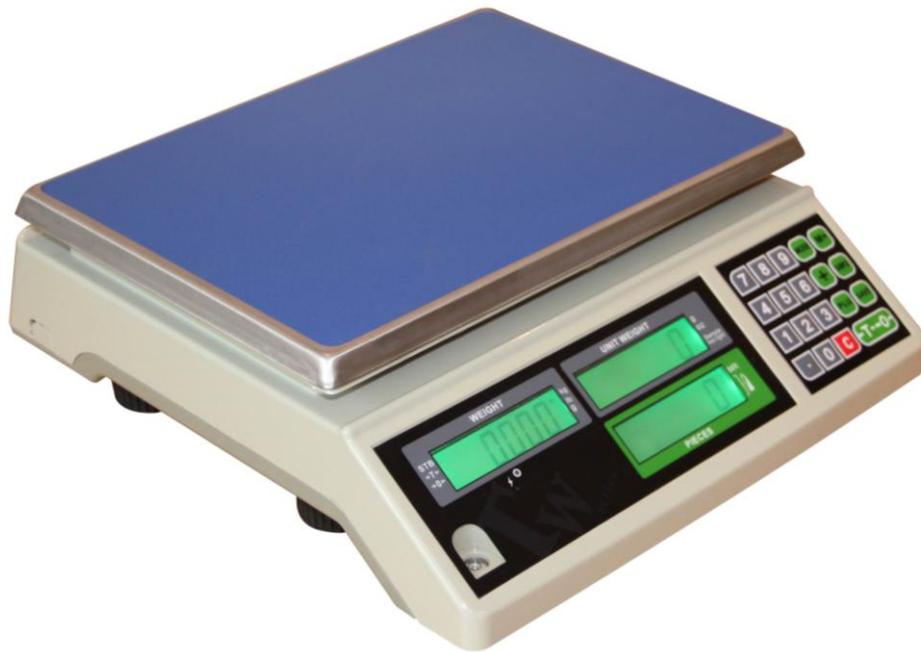


COUNTING SCALES

INSTRUCTION MANUAL



I. Before Use the Scale

- 1) Place the scale on a flat stable surface that will support the scale and load.
- 2) Adjust the four levering legs by turning them so that the air bubble of Levering indicator is centered in the black circle when you view the spirit level device. All legs should be touching the surface.
- 3) Do not place the scale in an area exposed to direct sunlight or to wind currents (i.e. - from an air condition, ventilator, etc.,) otherwise, the reading will not be accurate.
- 4) Do not place the scale near machines that create vibrations or electromagnetic disturbance, such as microwave ovens, portable phones or large motors. This will affect the accuracy of the scale.
- 5) Do not push the indicator or keys with sharp objects. They may break or puncture the membrane panel.
- 6) Do not clean the scale by splashing water. If the scale becomes dirty, wipe it with a wet and soft cloth and wipe it again by a dry and soft cloth.
- 7) If the scale is sealed, do not break the seal. If you break the seal, the scale will not be considered legal for trade. In this case, contact your dealer.
- 8) Do not disassemble or modify the scale, you will void the warranty. Modified scales will not be legal for trade.

II. INTRODUCTION

2.1 Features

- LCD display with auto backlight.
- Display resolution: 1/3000~1/30000
- Battery capacity indication.
- Auto power off function
- AC / DC power supply
- Multiple weighing unit : kg, lb,g
- Accumulate operation
- 99 presets memory keys

2.2 Specifications

| | | | | |
|-----------------------|--|----------|-----------|-----------|
| Model | TW-ACS | | | |
| Capacity | 3kg x 0.5g | 6kg x 1g | 15kg x 2g | 30kg x 5g |
| Max. Tare | 3kg | 6kg | 15kg | 30kg |
| Resolution | 1/3000~1/30000 | | | |
| Platter size | 200 x 300mm | | | |
| Display | LCD or LED display 5 digits for weight, 5 digits for unit weight, 6 digits for total pieces | | | |
| Rated Voltage | AC Transformer: 100~240V; 6V/4Ah Rechargeable battery | | | |
| Temp. range | 0 °C ~ 40 °C | | | |
| Humidity | ≤85% RHM | | | |
| Dimension | 340 x 310 x 125mm | | | |
| Gross weight | 4.5 KG | | | |
| Carton Packing | Single packing / 4pcs each carton | | | |

2.3 Main Functions:

- 1) Automatic calibration
- 2) Unit weight self-correcting function.
- 3) Auto backlight function
- 4) Auto power saving.
- 5) Charging indication and auto power-off for low voltage.
- 6) Filter function for shake and tremble.
- 7) Zero tracking, zero error indication, overload alert.
- 8) Error signal.

III. KEYBOARD AND DISPLAY

3.1 Keyboard



Front Panel

| KEYS | DESCRIPTIONS |
|---------------|---|
| 0 ~ 9 | Used to enter all numerical data |
| . | Used to set decimal point position of unit weight |
| Mode | Enter Configuration setting menu. |
| M+ | Used to add data to the accumulators. |
| + | |
| Sample | Used to sample the items currently on the platter for piece counting. |
| PLU | Used to recall a preset memory. |
| C | Clear Key, used to clear unit weight entries and the memorized data. |
| Save | Confirm to input preset amount |
| → T ← | Used to subtract unwanted weight, such as the weight of a container |
| → 0 ← | Used to Zero the scale Checked battery capacity. |

3.2 Indication display

| Lamps | DESCRIPTIONS |
|---|--|
| STB | Reading is stable. |
| → T ← | There has tare weight in the scale |
| → 0 ← | The scale has been zero. |
| Sample | The Sample weight is too light, the scale fails to sample a unit weight. |
| Correcting... | The self-correcting of sample operation is proceeding. |
|  | Capacity of battery |
| MR | There are accumulator values in memory |
| N | Battery is charging. |

IV. BASIC OPERATION

4.1 Before operation

Make sure the platter is sitting properly on top of the platform and there are is nothing on top of platter. Also, make sure that the scale is plugged into the proper outlet. Hold on [ON/OFF] for 2 seconds until the scale displays run through a self test, count down to zero. After that, display appears below table:

| | | |
|-------|---|------|
| 0.000 | 0 | 0.00 |
|-------|---|------|

4.2 Weighing operation

Step 1: Place an item on platter. the Weight window display shows “xx.xxkg”;

Step 2: Remove the item from platter. You will notice that the displays will return to there initial state:

| | | |
|-------|---|------|
| 0.000 | 0 | 0.00 |
|-------|---|------|

4.3 Zero Point Adjustment

The zero point is automatically adjusted when power us turned on. If the display

shows a positive or negative weight, the scale must be re-zeroed. After Zero operation, [→ 0 ←] indication should be display on the weight display.

4.4 Tare Operation

When weighing with a container, it is necessary to TARE out the weight of container in order to get an accurate price/weight reading. After TARE operation, [→ T ←] indication should be display on the weight display. When removing the weight from the pan the display reads a negative weight.

4.5 Overload Warning

Please do not add item that is over the maximum capacity. When reading [---H---], it means scale is over loaded. Remove the item on pan to avoid damage to the load-cell.

4.6 Storing a Unit weight to memory

It is possible to store unit weight in memory for quick recall. There are 99 memories to store unit weight.

Step 1: Place the sample items on the pan/container all at once.

Step 2: When the weight is stable, using the numeric keys, key in the number of items that placed in the pan.

Step 3: Pressing [**Sample**] key, it shows Unit weight on the window.

Step 4: Press [**SAVE**] keys, then the Weight window display shows “ SAVE”.

Step 5: Key-in number. After done, the unit weight will store in memory.

4.7. Recalling a Unit Price from memory

Press [**PLU**] key then key-in the number of memory. After done ,it shows the preset unit weight on the window.

V. COUNTING OPERATION

This mode is used to indicate the number of pieces of an item that placed on the pan. To ensure accuracy, the parts that counted must be consistent in weight.

The scale uses a sampling method to determine the average pieces weight of the items that counted. Place the sample items on the pan all at once. If the average pieces

weight is too light or the total weight of sample is too light, and [Sample] indication will be shine; the accuracy can not be guaranteed.

5.1 Prepare counting

Hold on [ON/OFF] until the scale displays run through a self-test, count down to zero. Then it displays below:

0.000 0 0.00

When weighing with a container, it is necessary to TARE out the weight of container in order to get an accurate pieces / weight reading. After TARE operation, [→ T ←] indication should be display on the weight display.

5.2 Start counting

Step 1: Place the sample items on the pan/container all at once.

Step 2: When the weight is stable, using the numeric keys, key in the number of items that placed in the pan.

Step 3: Pressing [Sample] key, the units weight of sample items shows.

(* The self correcting operation is proceeding, the [Correcting] indication is shinning. Refer to *5.3 operation)

Step 4: Unload the sample items to confirm the sampling.

Step 5: Place the item in the pan that need to be counted. The PIECES window displays the Total pieces of items.

5.2 Self- correcting operation

The Scale allows loading a new sample items after the first sample operation, to make ensure the sampling is accuracy result.

Step 1: After “5.2 Step 1 & 2” is done. the [Correcting] indication is shinning.

Step 2: Place another new sample items on the pan/container with the first sample items.

Step 3: The new sample result will shows . Unload the sample items.

Step 4: Place the item in the pan that need to be counted. The PIECES window displays the Total pieces of items.

Note: If the unit weight of items is already known and preset in memory keys, Press PLU to recall it, and then weigh and count the item.

5.3 Clearing count

Press [C] keys to exit Counting mode. The displays will return to there initial state:

| | | |
|-------|---|------|
| 0.000 | 0 | 0.00 |
|-------|---|------|

VI. ACCUMULATOR OPERATION

6.1 Prepare to accumulate

Each time before accumulate, please make sure the pan is empty, the current accumulator values is reset to zero, and the weight reading is stable. Check the MR indication is displayed or not. If yes, press the [M+] key to cancel the current accumulator values and MR indication disappears.

6.2 Accumulative operation

Put the weighing item on pan, wait for the weight reading to be stable, press the [M+] key, the windows will show below table:

| | | |
|-----|---|------|
| Add | N | X.XX |
|-----|---|------|

“N” being the number of times a count operation had been performed.

“XXX” being the summed pieces. Press [M+] key again return to return weighing status.

VII. Error message

Error 1: Zero Tracking wrong.

Error 2: Tare operation wrong. The weight is not stable or TARE weight is over the range of Tare.

Error 3: Accumulative operation wrong.

Error 5: Calibration operation wrong.

----H----: Overload alert.