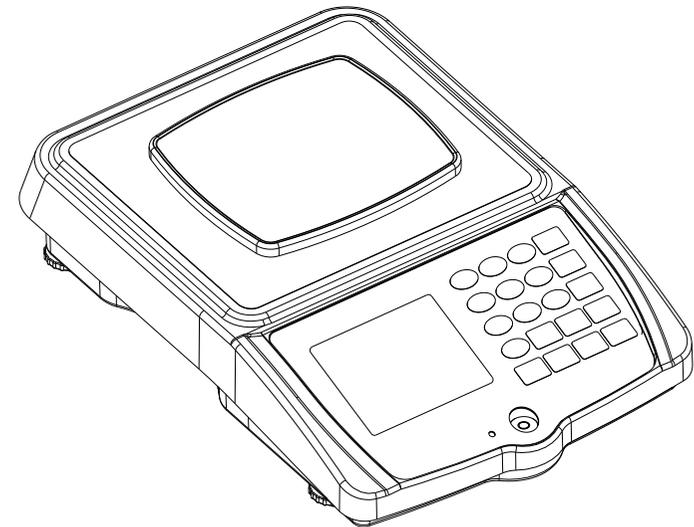# SCT COUNTING SCALE
INSTRUCTION MANUAL

USER MANUAL

SCT COUNTING SCALE

Ⅰ. Preparation:

Place the scale horizontally and keep the bubble inside the bubble level aligned with the red circle (See Fig.1).

Correct   incorrect

(Fig.1)

Ⅱ. Functions:

1. WEIGHT DISPLAY indicates the gross or net (when the tare function activated) weight on the platter.
2. UNIT WEIGHT DISPLAY indicates the average or set unit piece weight.
3. TOTAL DISPLAY is the accumulated total pieces on the scale.
4. ZERO INDICATOR turns on when scale is in Zero position.
5. TARE INDICATOR turns on when this function is used.
6. LACK of SAMPLE INDICATOR turns on when sample number is not enough for accurate counting.
7. LACK of PIECE WEIGHT INDICATOR turns on when sample unit weight is not heavy enough for accurate counting.
8. NUMERIC (0-9) KEY is used for setting numeric data for sample number, sample weight or limit the HI/LO settings.
9. DECIMAL POINT (**.**) KEY is used to set the decimal position of sample weight.
10. [**ZERO**] KEY set or re-adjust the scale in correct zero position.
11. [**TARE**] KEY reduces the gross weight on the platter (box or container etc.) as the tare weight.
12. [**SAMPLE/UNIT**] KEY is used when setting the counted sample numbers on the platter into scale memory.
13. [**UNIT WEIGHT**] KEY is used when setting the known unit weight data into scale in normal operation.
14. [**CE**] KEY is used for canceling the numeric setting data or cancel the previous unit weight data.
15. [**QTY/SET**] KEY is used for the alternation of changing normal counting and quantity check operation.
16. [**M+**] MEMORY KEY is used when accumulating the counts data, this data is memorized by pressing this key and can be accumulated up to 99 times.

SPECIFICATIONS

Model number	Capacity	Graduation	Platter Size
SCT - 300	300g	0.01g	135x120mm
SCT - 600	600g	0.01g	135x120mm
SCT - 1200	1200g	0.01g	135x120mm
SCT - 1500	1500g	0.01g	135x120mm
Net/gross weight	2.3 kg / 3.0 kg		
Package	Standard carton: 36.5 × 26.5 ×15.5 (cm³)		
	4 Units in one box: 55.5×39.5×340 (cm³)		
Operating Temp.	0-40℃ (32-104℉)		
Power source	Rechargeable battery or AC/DC		
	Adapter 10~12V/500mA		

FEATURES

- Auto zero tracking
- Low battery indication
- Large LCD
- Stability indication
- Auto calibration
- Auto back light
- Unit switching g or lb
- Variable g or lb reference weight calibration software
- 1.3 million internal resolution
- 60,000 display resolution
- 24 bit A/D processor
- Highest quality sensor used
- bottom sensor support and steel thread footing

CALIBRATION

Calibration may be required when it is initially installed, if the scale is moved to a substantial distance.

Calibration:
Single segment calibration (recommended):
1. Turn on the scale and then turn it off.
2. Press and hold **[ZERO]** and then turn on the scale, LCD will show SCALE on first line, CAL-0 (flashed) on the second line and AD value on the third line.
3. Press **[SAMPLE/UNIT]** to select calibration unit g or lb.
4. After the stable A/D value is displayed, press **[ZERO]** to calibrate ZERO, after 2 or 3 seconds, the second will show 0.
5. Set calibration weight through input 0 to 9 and then place the calibration weight you had set. After the stable indicator light, press **[ZERO]** key, the second line of display will show 00000 and now calibration is finished.
6. Turn off the power, then turn on the power again, place some weight on the platform to make sure whether weighing is correct, if not, repeat steps 1-6.

Linearity calibration (for scale technician or factory use):
1. Turn on the scale and then turn it off.
2. Press and hold [TARE] and then turn on the scale, LCD will show LINE on first row,CAL-0 (flashed) on the second line and AD value on the third line.
3. When the AD value is stable, press [ZERO] to calibrate ZERO, after 2 or 3 seconds, the second line will show 200.00.(eg: SCT 600)
4. Place 200g weight on the platform , and press [ZERO] when the stable A/D value is displayed, after 2 or 3 seconds, the display will show 400.00.
5. Place 400g weight on the platform , and press [ZERO] when the stable A/D value is displayed, after 2 or 3 seconds, the display will show600.00.
6. Place 600g weight on the platform , and press [ZERO] when the stable A/D value is displayed, after 2 or 3 seconds, the display will show 00000 and now calibration is finished.
7. Turn off the power, then turn on the power again, place some weight on the platform to make sure whether weighing is correct, if not, repeat steps 1-6.

17. [**MC**] KEY MEMORY CANCEL is used for canceling the data in memory.
18. [**TOTAL**] KEY is used for switching normal counting and recalling memory data.
19. [**SAMPLE/UNIT**] (lb/g). Press the key to select weight unit. Once the unit is selected, the selected unit indicates the different calibration and weighing unit.

Ⅲ OPERATION:
TARE
Clearing Tare weight:
Place the empty container on the platter. Press [TARE] key.   The WEIGHT display shows 0.00000.

When the container is removed from the platter, the WEIGHT display will show with minus weight value which is the weight of the container.

Clearing the previous tare value:
Remove weight from the platter then press [TARE] key so that the Tare indicator turns off and WEIGHT display returns to Zero.

SAMPLE SETTING: There are two sample setting methods:

Number setting: (In case of counting the unknown unit weight)
Place the pre-counted X number of samples on the platter, total weight is displayed. Set the X number of samples through numeric keys and press **SAMPLE/UNIT** key.   **UNIT WEIGHT** on display shows the average piece weight of the samples.   **TOTAL (pcs)** on display will show the number of unit on the scale, add in more samples and it will show the total number of pieces.

Unit weight setting: (In case unit weight is known)
Place samples on the scale.   Key in the average piece weight using the numeric keypad. Press **UNIT WEIGHT** on the keypad.   The total number of pieces will be shown on the **TOTAL (pcs)**.   Add in more units to be counted.   Press **CE** key to clear previous setting.
    c. Press **[CE]** key for cancel the previous unit weight and sample setting.

ALARM FUNCTION: To avoid counting errors, this scale has an useful alarm function to inform operator of counting error in case of low sample size or low sample weight.

LACK OF SAMPLE

Lack of Sample cursor on the display will turn on if the total weight of sample is below the limit value. The scale will be about to start counting but the error may be high.

Press **CE** key. Use larger sample size (more weight), key in sample size on the numeric keypad and press **SAMPLE/UNIT**.

UNIT WEIGHT ENHANCEMENT

The scale will automatically adjust and calculate new average unit weight when more samples are slowly placed on the scale. This ensures higher accuracy as samples are now based on a larger population size.

.

LACK OF PIECE WEIGHT

Lack of Piece Weight indicator will turn on if the averaged unit weight or set unit weight is not enough for accurate counting operation. Operator may use scale even this indicator turn on, but counting error might occur.

HI / LO CHECKWEIGHING WITH COUNTING

THE SCT has useful check function to inform operator that the total piece counts quantity has reached the lower limit and the upper limit desired. This function is designed for packing applications.

For example, if the operator wish to count 1,000 pieces for every package, he/she can set the lower limit and the upper limit as 1,000 pieces by:

Press **[QTY/SET]** enter quantity alarm menu.

Press **ZERO** to turn on check weighing "**CH=ON**" on display. Press **ZERO**, if "**CH=OFF**", it means that the quantity alarm function is turned off.

To set the lower and upper count limit, press **TARE** key to select the hi / lo limits. For an example, "**L = 990**", press 990 on the numeric keypad, then **TARE** to switch over to "**H=1010**", press 1010 on the number keypad.

Press **[QTY/SET]** to confirm and return to count mode. The alarm will beep at below 990 pcs and at a different tone at 1010 pcs.

Ⅳ. **Function setting**

1. Turn off the scale.

2. Press and keep **[UNIT WEIGHT]** key then turn on the scale, the display will show-----and then **b=ON/OFF** (beeper) on the first line, **A-XX** (auto off) on the second line and **L=ON/OFF** (backlight) on the third line.

3. Press **[QTY/SET]** to select activate or inactivate the function of the beeper. Press **[TARE]** to select auto off time. Press **[ZERO]** key to select activate or inactivate the function of the backlight.

4. UNIT WEIGHT function: when there is no weight on the platform, press **[SAMPLE/UNIT]** key to select the unit (g or lb).

Total weight clear

1. Press [**TOTAL**] to show total pieces on the third line of the display.

2. Press [**MC**] to show the unit which will be cleared.

3. Press **[CE]** to confirm clear.