

User Manual

Weighing Scale

SI-130



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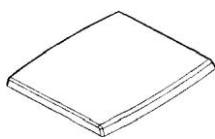


Chapter 1 Introduction

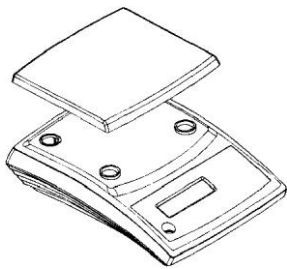
❶ Preparing To Use the Scale

1. Please keep the scale in a cool dry place. Do not store it at high temperature.
2. Avoid objects impacting with the scale. Do not drop loads onto the scale or subject the weigh pan to any strong shock loads.
3. Remove any weight that might be on the weigh pan before power on the scale.
4. We suggest to warm up the scale for 15~20 minutes before operation to ensure best accuracy.
5. Adjust the four levelling feet (if fitted) to set the scale pan level using the spirit bubble level located at the front of the scale.
6. All goods weighed should be placed in the centre of the weigh pan for accurate weighing. The overall dimensions of the goods being weighed should not exceed the dimension of the weigh pan.
7. Notes for dry battery models
 - ① If the scale is not going to be used, please take out the dry batteries to avoid electrolyte leakage.
 - ② Do not mix different types of dry battery or mix used dry batteries with new dry batteries.
 - ③ Please make sure “+”, “-” poles are placed in the correct direction.
 - ④ Please don't place the battery in hot areas or try to disassemble the battery, to avoid electrolyte leakage.
 - ⑤ Please don't keep the used-up battery in the battery case to avoid breakdown.

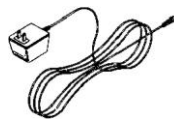
❷ Components



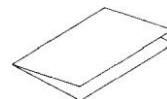
Stainless steel pan



plastic pan + scale

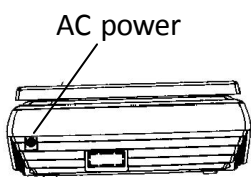


AC adapter

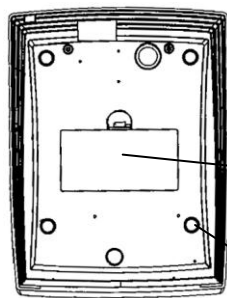


manual

❸ Appearance

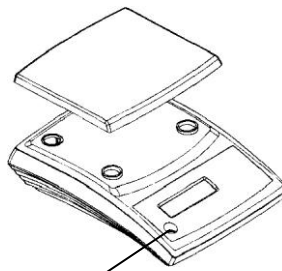


AC power

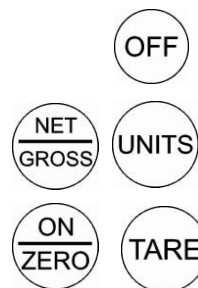


Battery cover

4 Feet



Bubble level



Keys



④ Specification

| Model | Capacity | Division | Resolution |
|--|----------|----------|------------|
| SI130-2.5 | 2,500g | 0.5g | 1/5,000 |
| SI130-5 | 5,000g | 1g | 1/5,000 |
| SI130-10 | 10,000g | 2g | 1/5,000 |
| SI130-15 | 15,000g | 5g | 1/5,000 |
| Operating Temperature : 0°C ~ 40°C (32°F ~ 104°F) | | | |
| Power Source : 4* C (UM-2) 1.5V dry batteries (excluded) Adapter input: AC 100V ~ 240V output: 12VDC/1A | | | |

⑤ Keypad function



: Press this key to power off.



: This key possesses two functions: Power on and zero function.

① When the scale is off, press this key to power on.

② When the scale is on and the weigh pan is empty (free of load) and the display is not showing zero, press this key to zero the scale. The zero indication “◀” shows on left side of the display.

☞ Zero range: ±2% of full scale (standard, OMIL & NTEP models); ±4% of full scale (Sri Lanka models)



: Press this key to deduct the weight of the container.

This key is not functional when the weight value shown on the display is negative or over the full scale capacity.



: Press this key to select desired weight units or piece unit (Pcs). The indications will indicate the active units



: Press this key to switch between the “Net value” and the “Gross value”

☞ The gross weight = Tare weight + Net weight (The key is ONLY functional in the Tare mode)



⑥ Display



⑦ Firmware Version

When power is off, hold $\frac{\text{NET}}{\text{GROSS}}$ key and press $\frac{\text{ON}}{\text{ZERO}}$ key to wait till display shows 0.1 AdC and then press $\frac{\text{ON}}{\text{ZERO}}$ key twice to enter 03 Err. Press $\frac{\text{TARE}}{\text{TARE}}$ key and displays firmware version 02025 and then press $\frac{\text{TARE}}{\text{TARE}}$ key to display maintenance number 100 for 2 secs. Press $\frac{\text{ON}}{\text{ZERO}}$ key to back to last screen and displays 03 Err. Press $\frac{\text{ON}}{\text{ZERO}}$ key and display 00 Esc and then press $\frac{\text{TARE}}{\text{TARE}}$ key to exit self-test mode, the scale will restart automatically.

⑧ Error Messages

- E 0 \Rightarrow The EEPROM memory is not working correctly.
- E 1 \Rightarrow Zero is higher than the zero range when power on the scale.
- E 2 \Rightarrow Zero is lower than the zero range when power on the scale.
- E 4 \Rightarrow A/D value is unstable
- E 9 \Rightarrow A/D IC malfunction (cannot read A/D value).
- 0 L \Rightarrow The weight of the object is over 9 divisions of the maximum capacity
- E r r C \Rightarrow The display resolution is greater than internal resolution after calibration.
- E r r G \Rightarrow G value is not within the range 9.772~9.829
- E r r S \Rightarrow Error setting
- - - - H \Rightarrow The weight value is greater than zero range, when re-zero the scale.
- - - - L \Rightarrow The weight value is below zero range, when re-zero the scale.

⑨ Unit Conversion

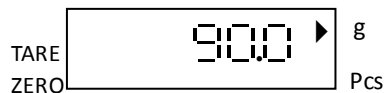
| | |
|-------|----------------------|
| kg | 1 g = 0.001 kg |
| g | 1 g = 1 g |
| lb | 1 g = 0.002204623 lb |
| lb,oz | 1 g = 0.03527396 oz |
| oz | 1 g = 0.03527396 oz |




Chapter 2 Operation


① Tare

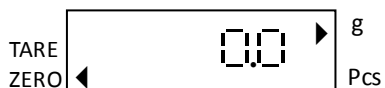
Place the object on the weigh pan






When the weight stable, press  to deduct the weight and tare indication “◀” shows on.



Remove the object and press  to clear the tare value and tare indication “◀” goes off.




 Tare continuously: Press  key, when weight is added or deducted on weigh pan.

 Tare value = the full capacity (the scale can be tared continuously to the full capacity)


② Net value / Gross value

In tare mode, tare indication “◀” shows on



Press  to show the gross value, and tare indication “◀” goes off




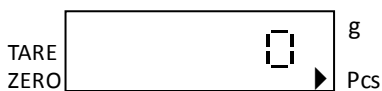
Press  again to show the net value and tare indication “◀” shows again.




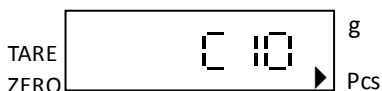
 The  key is functional **ONLY** in tare mode.


③ Counting Function

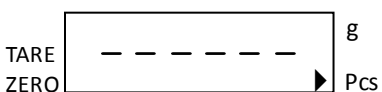
Use  to enter the counting mode. Pcs indication “◀” shows on.



Press  to select the counting sample size (10,20,50,100,200)



Place the samples on the weigh pan, and then press 



After the weight is stable, the display shows the quantity of the samples.



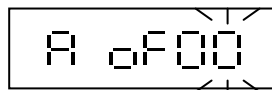


After power off the scale, the scale memorizes the selected sample quantity, The scale will show the same selected sample quantity, when entering the counting mode next time.

If the sample quantities weighed larger than 65536 pcs, the display shows the error message "OL".

④ Auto Power Off, Backlight, Hold Mode

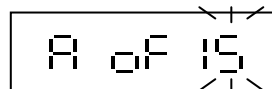
In weighing mode, press and together to enter the setting mode.



Use or to set **Auto power off time**¹

Parameter 0~19 (0: No auto power off, 1~19 :

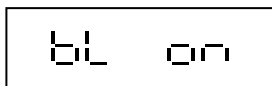
When the scale is idle for 1~19 minutes, the scale auto power off.)



Press to enter **Auto backlight setting**²

Use or to select "on" or "off"

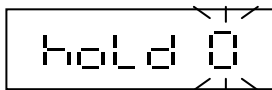
(on: Auto backlight on , off : Auto backlight on)



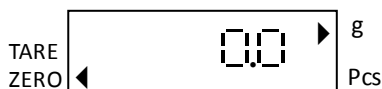
Press to enter **Hold mode setting**³

Use or to select hold mode

(0: Hold function disabled, 1: "Peak hold" mode
2: "Stable hold 1" mode, 3: "Stable hold 2" mode)



Press to complete the setting and back to weighing mode.



Auto power off time¹

When the weight on weigh pan is less than 10d or remains idle for the set time, the scale will automatically power off.

Auto power off is not functional, when using AC adapter as power source.

Therefore, auto power off is **ONLY** active, when using dry batteries as power source.

Auto backlight setting²

When the weight is over 10d, the display backlight will be on. After the weight is stable for 10 seconds or when the scale returns to zero, the display backlight switches off.



Hold mode setting³

Hold 0 = Hold function disabled

Hold 1 = **“Peak hold” mode**





The scale shows the maximum weight value detected from the continuously changing weight values. Press any key to exit the hold function.

Hold 2 = **“Stable hold 1” mode**

After the scale is stable, the display shows the current weight value. Press any key to exit the hold function.

Hold 3 = **“Stable hold 2” mode**

After the scale is stable, the display shows the current weight value. Exit the hold function when unloaded and return to zero.

| | |
|--|---|
|  ⇒ upward key (0~9) |  ⇒ confirm/enter key |
|  ⇒ downward key (9~0) |  ⇒ move the cursor to left |