



EXCELL[®] EXCELL PRECISION CO., LTD.

Weighing Scale

User Manual

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BEFORE USING THE SCALE

Thank you for purchasing an EXCELL Electronic Digital Scale. In order to use the scale properly, please read this User Manual carefully before use. If you have a problem concerning the scale, please contact your supplier.

1. Please keep scale in a cool and dry place. Do not store at high temperatures.
2. Do not allow any liquids to come into or contact with the scale. If it is happened, wipe the scale dry with a cloth.
3. Avoid objects impacting with the scale. Do not drop loads onto the scale or subject the weigh pan to any strong shock loads.
4. The load placed on the weigh pan must not exceed the maximum weighing capacity of the scale.
5. If the scale is not going to be used for some time, please clean it and store it in a plastic bag in dry conditions. A desiccant sachet may be included to prevent moisture build up.
6. Please operate or charge the scale in an open area. Do not squeeze the power cord to avoid wire on fire.
7. Do not mix different types of dry battery or mix used dry batteries with new dry batteries.

PREPARING TO USE THE SCALE

1. For accurate weight readings locate the scale on a firm level surface free from vibrations.
2. Avoid operating the scale in direct sunlight or drafts of any kind.
3. Remove any weight that might be on the weigh pan before the scale is switched on and avoid leaving weight on the pan for long periods of time.
4. Once the scale has been switched on, it will go through a LCD display test and then re-zero to be ready for use.
5. The scale requires 15~20 minutes warming up the machine before operation to ensure best accuracy.
6. Please note when  symbol appears on the screen, the dry batteries need to be replaced.
7. 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.



CHAPTER 1 FEATURES AND SPECIFICATIONS

Features:

- **Multi-function operation:** Fast weighing operation; Full range tare; Net / Gross weight display; Simple counting (pcs); Auto power-off; Weight hold feature.
- **Dual-weighing units:** kilogram (kg) and pound (lb) depend on request.
- **User-friendly design:** Auto calibration; Large LCD display; Gravity compensation; low battery warning indicator; double over-load protection.
- **Dual-power source:** The power source can either be from AC / DC or dry batteries.

Product Package:

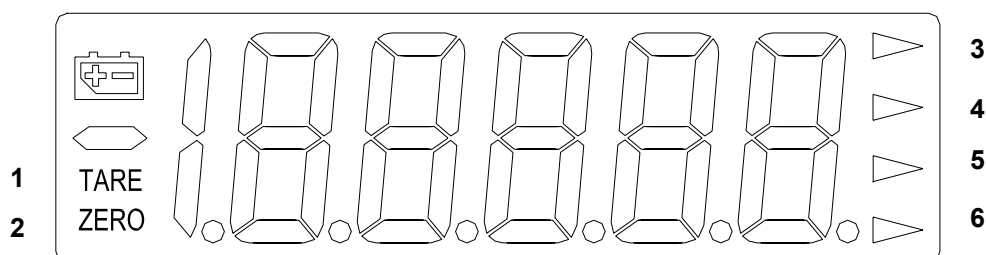
- Scale 1 off
- AC adapter 1 off
- User manual 1 off

Please contact to your supplier, if any of the items described above are missing.

Dry batteries are not included in the product package.



CHAPTER 2 DISPLAY



TARE 1 : “Tare” indication.

ZERO 2 : “Zero” indication.

▶ **3** : Kilogram (g), the 1st unit indication.

▶ **4** : Pound (lb), the 2nd unit indication.

▶ **5** : None.






▶ **6** : Piece unit (pcs), the 4th unit indication.

 : “Low Battery” indication.



CHAPTER 3 KEYBOARD FUNCTION

3-1. Explanation of Keyboard

1.  : The key to switch the scale off.
2.  : ON/ZERO key. When the scale is off, press the key to switch it on. When the scale is switched on, with the weigh pan empty, if the display is not showing zero, press this key to zero (balance) the scale.
 - ❖ Zero range: $\pm 2\%$ of full scale (Standard, OIML & NTEP models), $\pm 4\%$ of full scale (Sri Lanka model).
3.  : TARE key. Press the key to deduct the weight of the container.
 - ❖ The tare key is not functional when the weight value shown on the display is negative or over the full scale capacity.
4.  : Units key. Press the key to select the desired weight units or count units (pcs).
5.  : Gross weight / Net weight key.



The gross weight = Tare weight + Net weight

(The key is ONLY functional in the Tare mode)




3-2. Basic Function Operation




3-2-1 Switching the scale on / Re-zeroing

1. When the scale is off, press  key to turn the scale on.
2. When the scale is on and without any object placed on the weigh pan, press  key to obtain a zero reading. "◀" the 2nd indication shows in the left hand side of the display.




3-2-2 The desired units selection

Press the  key to select gram (g), ounce (oz) or pcs, "▶" the indication will show in the right hand side of the display. After power off, the scale will memorise the active units. When the scale is powered on again, it displays the previous active units.

3-2-3 The weight value of the container deduction










1. Place the container on the weigh pan. After stable, press  key to deduct the weight value of the container.
 2. Place the object in the container, the scale will show the net weight value of the object.
 3. Remove the container and weighing object, and the display shows the negative weight value of the container. Press  key to clear the weight value of the container, and "◀" the first indication goes off.
- ❖ Tare continuously (Press  key, when weight is added or deducted on the weigh pan).
- ❖ Tare value = The full capacity (The scale can be tarred continuously to the full capacity).

3-2-4 Net / gross weight value cross-display

1. In the tare mode, the display shows "◀" the 1st indication on the left hand side. Press  key to show the gross weight value, and "◀" the indication goes off.
2. Press  key again, the display shows the net weight value and "◀" the 1st indication shows again.
3. The  key is ONLY functional in the tare mode.



3-2-5 Counting mode

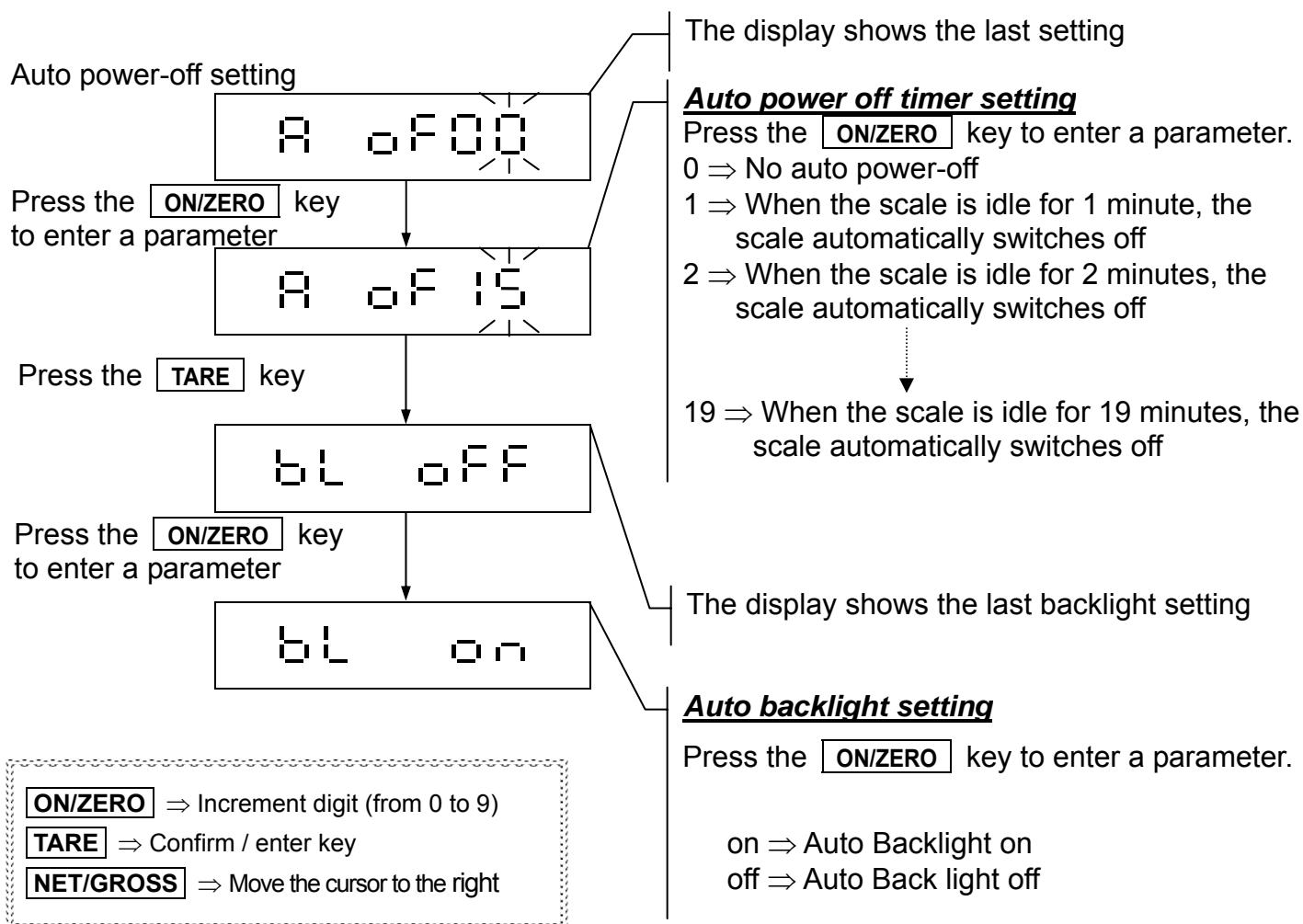
1. Press  **UNITS** key to select piece unit (pcs), and enter the counting mode.
 2. Press  **NET GROSS** key to select the counting sample size 10, 20, 50, 100, or 200, and the display shows , , , , or .
 3. Place the samples on the weigh pan, then press  **UNITS**. The display shows “— — — —”. After the weight is stable, the scale shows the quantity of the samples. After the sampling process is complete, put the goods on the weigh pan and the screen shows the quantity of the goods.
-
- ❖ The scale memorizes the selected sample quantity, after turning off the scale. The scale will show the same selected sample quantity, when entering the counting mode next time.
 - ❖ If the quantity of the items weighed larger than 65536 (pcs), the display shows the error message “ L ”.



CHAPTER 4 ADVANCED FUNCTION SETTINGS

4-1 Auto Power off and Backlight Setting

Switch on the scale, press and keys together to enter the advance function setting mode. The display shows **A 0F00** .



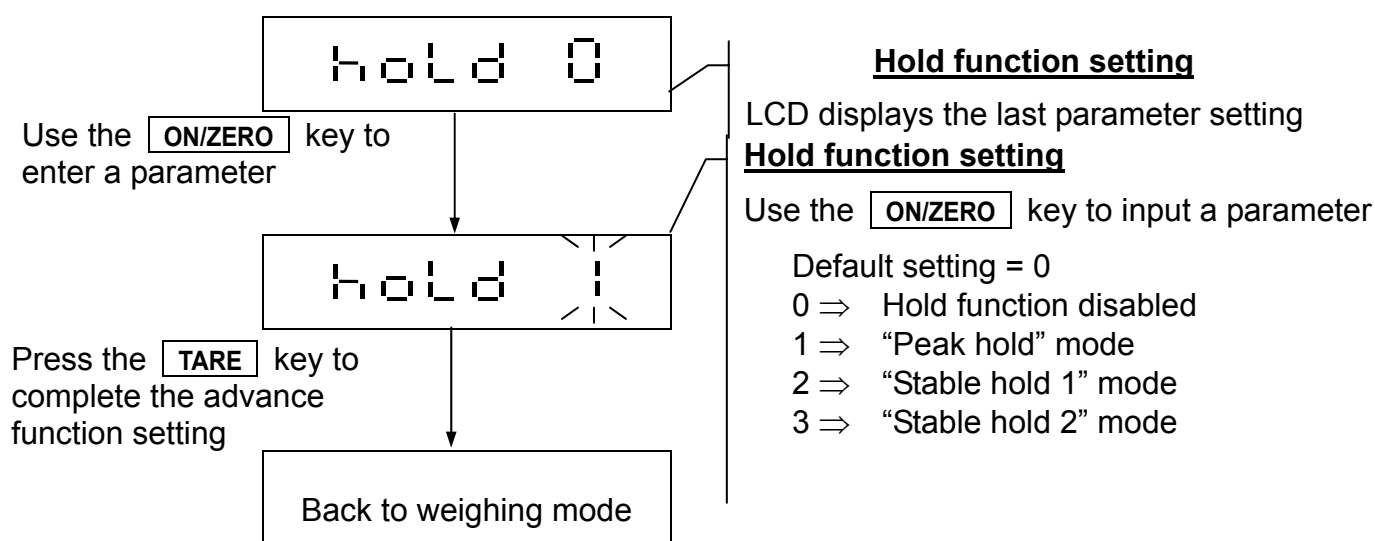
Automatic power-off function

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

- ❖ Automatic power-off is not functional, when using an ac adaptor as the power source. Therefore, auto power-off is **ONLY** active, when using dry batteries as the power source.

**Auto Backlight Function**

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

4-2 Hold Function Setting

[ON/ZERO] ⇒ Increment digit (from 0 to 9)
[TARE] ⇒ Confirm / enter key
[NET/GROSS] ⇒ Move the cursor to the right

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. Re-zero the scale to exit the hold function.