
# USERS GUIDE

for

# WEIGHING SCALES EKO+

**DISPLAY & KEYBOARD**

**Zero Indicator:** Shows that the weighing plate is empty. Before weighing a product, be sure that the weighing plate is empty and press "O" key for zero setting if the "O" indicator is off. Otherwise error may occur.

**Equilibrium Indicator:** Shows that the load on the weighing plate is well stabled. It is off while placing or removing the product. If Equilibrium Indicator goes off, the weight shown on the display may be wrong. Therefore, in order to read the weight, wait until Equilibrium Indicator symbol appears after placing the product on the weighing plate.

**NET** **NET Indicator:** It is ON, when there is a tare. Actual weight value is NET weight value.

**Tare Indicator:** Shows that the tare effects the weighing. It flashes when the tare is not fixed. It is continuously on when the tare is fixed. (Only for scales with LCD display.)

**M** **Total Memory Indicator:** It flashes when the total memory is containing a value. It remains continuously on while the content of the total memory is being displayed.

**Battery Indicator:** Shows that the battery is in use. If Battery indicator is ON, scale is powered by the battery. If it flashes, it is necessary to charge or change the battery in the shortest period.

Weighting instrument that designed with using LCD type display modules has four battery sections indicating the current charge level of the battery. Also, a battery charging animation mode activated when the power supply connection is established. While the power supply connection is not established, the battery frame around the battery indicator appears, indicating that the battery is in use. Just before the battery becomes empty, the battery frame starts flashing.

**W1 and W2 Indicators:** Shows actual weighing range (Valid only for d range scales). Check max, min, e values of each range on data plates.

**⇄T** Key : Used for accepting the load as tare.
**→O←** Key : Used for zero setting the scale when the weighing plate is empty.
**F** Key : Used for reaching settings menu and some functions similar to settings.
☼ Key : Toggles backlight between ON, OFF, ON-OFF (Only for LCD models)
HOLD MODE: This feature is valid for non-approved devices. Hold mode is entered by pressing and holding the backlight button and "HLdOn" appears on the screen. In this mode, pressing the backlight key shortly; weight, unit price, total displays are fixed for seconds and weight screen blinks. To exit from this mode, press and hold the backlight button and "HLdOff" will appear on the screen.

**FIRST OPERATION**

When scale is turned on, all segments and symbols are displayed for a short period. Then, factory defaults of major settings are displayed for about 10 seconds. After that, maximum capacity and division is displayed for a while and scale gets ready for weighing.

Zero value is displayed. Zero and Equilibrium indicators are ON. Nothing should be placed on weighing plate until it gets ready for weighing operation.

If there is any weight on weighing plate or there is no weighing plate on scale, nnnnnn error message might be seen on display. Be sure that there is no weight on the weighing plate before calling service.

**WEIGHING THE PRODUCT**

Place the product on the weighing plate. Wait until the Equilibrium indicator is on. Then weight of the product will be displayed.

The value "0.000" should appear on the display and also the Equilibrium and Zero indicators should be on when the weighing plate is empty. If the value on the display is not zero (or Equilibrium indicator is not on), press zero key for resetting the display. After the zero is displayed and scale is balanced, proceed to the weighing process.

**WARNING:** Never place any load exceeding the maximum capacity of scale. ("Max" capacity is given on the data plate). Product should be placed on weighing plate gently by hand. Leaving the product from a certain level of height or throwing it on to the weighing plate (even the weight is low) may damage the scale.

**WEIGHING WITH TARE**

- Place the tare weight on the weighing plate. Wait until the Equilibrium indicator is on. Tare weight will be displayed.
- Press Tare key. "dara" will be displayed for a second then "0.000" will be displayed. NET indicator is ON. Tare symbol is flashing (only for LCD display). Tare has been weighed.
- Place the product on weighing plate. Wait until Equilibrium indicator is on. Product's net weight will be displayed.
- Empty the weighing plate. Wait until the Equilibrium indicator is on. NET and Tare indicators are off. Tare is cancelled automatically.

NOTE : Press Tare key twice for blocking the cancellation of tare. In this case, word "sabit" will be displayed for a while and tare symbol (only for scales with LCD display) will be ON permanently. To cancel tare, press Tare key when the weighing plate is empty.

Models with Tare symbol (for models with LCD displays);

- Never ON : There is no tare.
- FLASHING : When weighing plate is empty, tare will be cancelled automatically.
- Always ON: Tare is fixed. Press Tare key to cancel it when weighing plate is empty.

**DISPLAY BACKLIGHT**

Press ☼ key to toggle between backlight ON, OFF and ON_OFF modes.

To change backlight mode:
Press ☼ key. Backlight mode will be displayed for 1 second.

- bL On : Backlight ON. Backlight is permanently ON.
- bL OFF : Backlight OFF. Backlight is permanently OFF.
- bLOnFF : Backlight ON_OFF. Backlight is ON while weighing or pressing a key. Backlight is OFF when there is no weight on the weighing plate.

When scale is turned on, backlight mode is OFF. If there is a flashing dot on display instead of weight value, backlight will be turned off automatically.

**SETTINGS**

- Press F key for 3 seconds to enter settings menu. "Set" and "Main Menu Number" will be displayed on Weight Display and "Sub Menu Number" will be displayed on Unit Price Display. Setting parameter will displayed on Price to Pay Display.
- Press F key to select the required Main Menu Number.
- Press Zero key to select the required Sub Menu Number.

To toggle between On/Off values:
- Press Tare key.

To change the numeric values:
- Long press Zero key. Digit will start flashing.
- Short press Zero key to change the digit.
- T key increases the number of the selected digit.
- Press F key to save the new value.
- Press F key for 3 seconds to return to normal weighing.

NOTE : After exiting from Settings menu, scale must be turned off and on for a reliable weighing.

EXAMPLE : Setting startup delay feature
*(Set 12.2 ➔ 12: Main Menu Number, 2: Sub Menu Number)*
- Press the F key for 3 seconds. "SET" will be displayed for 2 seconds.
- Press the F key respectively, until SET 12.1 is displayed.
- Press Zero key respectively, until SET 12.2 is displayed.
- Press T key to change the value OFF or ON.
- Press F key during 3 seconds to return to the normal weighing.
- Turn off the scale and then restart it.

**SETTINGS MENU**

Values in parenthesis are default factory settings.

**1. Tare**

**1.1 Tare depends on stable equilibrium (On)**

If it is approved, its default value is ON and it cannot be changed.

**1.2 Cancel tare operation in negative net value (On)**

Smaller tare than valid tare. (In negative net value). If it is approved, its default value is ON and it cannot be changed.

**2. Zero Setting:**

**2.1 Initial zero setting range control ±10% (On)**

If it is approved, its default value is ON and it cannot be changed.

**2.2 Zero setting key range control < 2% (On)**

If it is approved, its default value is ON and it cannot be changed.

**2.3 Zero setting depends on stability (On)**

If it is approved, its default value is ON and it cannot be changed.

**2.4 Automatic zero setting (On)**

If the weight indication is negative for more than 5 seconds when the equilibrium indicator is on, zero will be set automatically.

**2.5 Automatic zero tracking (On)**

If it is ON : Automatic zero tracking is active when the display is zero and stable.
If it is OFF : Automatic zero tracking is not active.
NOTE : If there is tare, automatic zero tracking function will not work.

**3. Stability:**

**3.3 Some functions depend on the stability (On)**

If it is approved, its default value is ON and it cannot be changed.

**6. Power Management Settings:**

**6.1 Empty Weighing Plate Indicator (On)**

If it is ON : There will be a flashing dot on the display instead of weight value if scale is powered by battery and left empty for 30 seconds. ( "------" will be displayed on LCD models)
If it is OFF : Does not function.

**7. Filters:**

**7.1 Median Filter (5)**

If the scale is approved model, it cannot be changed. Some models may not have this menu.

Minimum value is 1, maximum value is 9. If a value is entered other than those, filter will use its default value.

**7.2 Average Length (50)**
If the scale is approved model, it cannot be changed. Some models may not have this menu. Minimum value is 10, maximum value is 50. If a value is entered other than those, filter will use its default value.

**7.3 Minimum Average Length (5)**
If the scale is approved model, it cannot be changed. Some models may not have this menu. Minimum value is 1, maximum value is 25. If a value is entered other than those, filter will use its default value.

**7.4 Filter Break Count Value**
If the scale is approved model, it cannot be changed. Some models may not have this menu. Minimum value is 70, maximum value is 2800. If a value is entered other than those, filter will use its default value.

**8. Calibration:**

**8.1 Calibration Coefficient**
It can be changed only if the calibration key is ON.

**8.2 Maximum Capacity**
It can be changed only if the calibration key is ON.

**8.3 Division (1)**
0: 3000
1: 2 x 3000
2: 3 x 3000 (not valid for approved models)
3: 6000 / 7500 (not valid for approved models)
4: 12000 / 15000 (not valid for approved models)
6: 1500 (It can be changed only if the calibration key is ON.)

**8.4 Load Cell Maximum Capacity**
It can be changed only if the calibration key is ON.

**8.5 Device Unit (1)**
0: g
1: kg
2: ton
It can be changed if it is approved model.

**8.6 Gravity ("G") value of the location where scale is calibrated (9.8022)**
It can be changed only if the calibration key is ON.

**8.7 Gravity ("G") value of the location where scale will be used (9.8006)**
It can be changed only if the calibration key is ON.

**8.8 Load Cell mV/V value**
mv/V value of the Load Cell used.

**9. Relay Settings:**
Not valid for this model.

**10. Interface Settings:**
(Valid only for PRINTER/PC type scales)

**10.1 Communication ON/OFF (On)**
If it is ON : RS232 communication is active.
If it is OFF : RS232 communication is inactive.
(It must be activated only for printer/pc type scales; otherwise ER 8 will occur.)

**10.3 Continuous Transmitting (Off)**
If it is ON : Activates continuous data transferring from scale to a PC.
If it is OFF : Communication is not continuous, data is sent when a request received from a PC.

**12. Others:**

**12.1 Approved Scale Mode (On)**
It can be changed only if the calibration key is ON. If it is turned ON, all settings will be returned to factory default settings related to approval.

**12.2 Startup Delay (10sec) (On)**
If the scale is approved model, it cannot be changed.

**12.3 Calibration Switch (Off)**
If calibration switch is off, settings related to calibration switch cannot be changed. Password is required to turn on the calibration switch. If calibration switch is turned on, initial scale counter will be increased by one. At this stage, the seal of the scale will be broken. Only legally authorized services are allowed to use this mode. Please check your countries legal procedures.