

# **EWS Series – Simple Weighing Scale**

## **USER Manual**

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## 1. Specifications

<b>Model</b>	<b>EWS</b>
<b>Weighing Capacity</b>	15 Kg x 1 g, 20 kg x 2 g , 30 kg x 5 g
<b>Display Digits</b>	Red LED (5 digits)
<b>Power source</b>	AC 110 / 220 / 240 V, 50/60 Hz OR 6V battery (in-built)
<b>Power consumption</b>	Approx. 15 W
<b>Operating Temp.</b>	-10° C to +40° C
<b>Platter size</b>	345 x 240 mm

## 2. Introduction

We are thankful to you and very much glad to invite you to be a part of “ENDEL” family on purchasing the world class measuring instrument - EWS Series Scale.

Your EWS series scale is a unique instrument. It is highly accurate, versatile, tough and durable due to its state-of-the art parallel plate design. It transmits load to single point shear-beam load cell without moving any parts. It can also absorb overload / impact load up to 150 - 200% of the rated capacity. The structure and platform are designed to overcome “corner errors” while weighing operations.

Your EWS is not only simple weighing scale but it also accumulates each weighing data on your request and also shows the total sum at a touch of the finger.

The scale is equipped with the long lasting SMF (Sealed Maintenance Free) rechargeable battery (6V, 4 Ah); which is in-built in the housing of the scale.

It is available in two models as per your requirement:

1. With Customer Pole Display and
2. With Rear Display.

Simply place the scale on reasonably level surface and start weighing.

## 3. Installation

### Unpacking

Unpack your EWS series scale carefully, you will find following within the pack,

1. This user manual
2. EWS series weighing scale with stamping plate
3. Stainless Steel pan for the scale
4. Pole display for the scale (Optional)

### Optimal Installation requirement

For optimal results we recommend that you install the scale at a location which fulfills following

1. A leveled surface
2. Stable and/or not subject to any vibration
3. Not exposed to direct sun-light
4. Away from area containing corrosive gas
5. Dust free
6. Temperature - 0 to 40° C.
7. Humidity level up to <95% RHC (Do not install near a humidifier)

### How to install?

1. Put your EWS Series scale on reasonable leveled surface
2. Adjust the pole display into its hole provided at the rear-left corner of the scale. Take care that the display cable does not experience any depression. Tighten the screw on the holder of the pole.
3. Adjust the Stainless Steel Pan on the four rubber pads. See that all three nails on the back of the pan adjust into the hole in rubber pads (pad on upper-left corner is without hole in order to adjust the pan in its correct position)
4. Plug-in the power cord; and switch on the mains.
5. After the machine is switched on, check the strokes of the indicator(display). It will show the factory give machine no., battery capacity and software version number. Then it comes into weighing status. (b. t. x x indicates the battery capacity in %)

### Note:

- As it is a precision instrument, wait for 10 minutes until scale gains the required heat, so as to ensure accurate measurement.
- In case of battery capacity is less than 15%, "Battery Low" indicator LED lights up, reminding the user to recharge.
- In case of battery capacity is 0%, "Battery Low" indicator lights up with a buzzer on and displaying "b. t. 0". That reminds the user to recharge. Do not use scale in this case so as to protect the battery.
- If the scale remains unused for 3 minutes, the scale enters the energy saving mode and standby status, just displaying "-". It will enter into normal weighing mode just by applying weight on the pan or on a key input.

### Precaution

- **Warning !!** Do not open the scale enclosure for any reason. Do not expose the delicate electronic components.
- Do not attempt any trouble shooting or maintenance other than that is mentioned in this manual
- Check voltage from AC supply, which should not be exceed than the permissible limit.
- Insert the plug carefully into power socket.
- Avoid connecting other equipments to the same socket
- Secure the power cable such that it will not be stepped on, depressed or pulled, if possible, used an extension cord; it should have an equal to or exceeding length of a suitable power source.

## 4. Functions

### "ZERO" setting

While the scale is in the steady weighing status and weighing indication is less than the 2% of full scale capacity, press "ZERO" key to clear any digit on the display and get back the display to true zero. The "ZERO" indicator lights up.

### "TARE" operation

Use this key to subtract the weight of the container placed on the platform. Place the container, wait till the scale display comes to the steady weighing status, press "TARE" key. The display will become zero and "TARE" indicator will lit on. Put the commodity into the container; now it shows the Net weight of the commodity.

### "TARE" clear

TARE indicator will still lit on, after removing the container. Press the "ZERO" key, the "TARE" indicator lamp goes out and the gross weight is displayed.

### "Accumulation"

This function sums up the weighing values up to maximum of 99 weighing operations. Press "ADD" key when the display value is not zero, it will add up the current value displayed on the indicator to the previously accumulated value, and "ADD" indicator lamp will lit on. The display will than shows the current accumulation time and accumulative amount, Such as 18605.350 will be displayed as "H186" and "L05.350" 10 digits is the maximum accumulative amount. Override to that will result into the display of "FULL-1". When the accumulation operations reaches above 99 times, it will display "FULL-2".

### "Accumulation" Clear

Press "ADD" key to display the accumulation times and total accumulation value; press "ZERO" key to clear the accumulation value automatically.

## 5. Calibration

1. Switch-Off the scale.
2. Press and hold  and  keys and switch-on the scale.
3. Release  and  keys. The display will show : -CAL-
4. Press  key again.
5. Display will show : "d" and "interval" -  
Say for example - FOR 30 kg x 5 g scale the display will show "d 0.005"
6. Press  key again.
7. Display will show last interval.  
Say for example - For 30 kg x 5 g scale - "n 6000"
8. Press  key again. The display will show - "ULoAd" - unload.
9. Press  key again. Display will show the maximum capacity of the scales : Say for example -  
For 30 kg x 5 g scale - "30.000"
10. Put the weight up to full capacity on PAN.
11. Press  key again.

12. Display will show "dg 0" (Done good)
13. Press ZERO key again.
14. Remove weights from the PAN
15. Switch off the scale.

CALIBRATION PROCEDURE IS COMPLETED...

Restart the machine for commercial use.

## 6. Operating Notes

### Grounding

Ground the instrument properly in order to protect it from power surges. Using a suitable adapter with a third grounding terminal can do this properly. Any method of grounding comply with local electrical regulations can also be applied. DO NOT GROUND THE SCALE TO GAS PIPES, WATER PIPES OR TO TELEPHONE PLUGS.

### Warm-up period

For best results, a minimum 10 (TEN) minutes period of disuse prior to operation is highly recommended.

### Heavy Commodities

Be sure that your scale is not often being used to weigh the commodities; heavier than its rated capacity. (The display will not show the weighing result in such cases). The scales is however, protected against the overload/ impact load operations, it may damage the load cell of the scale permanently if such operations are performed repetitively.

### Massive commodities

Be sure that the outer edges of the massive commodities do not touch any thing other than the scale platter/ pan. It may result into wrong weighing value.

## 7. Handling Instructions

Despite the sturdy structure of the scale and its pole display, each unit houses the sensitive instrumentation, which may be damaged by careless handling of the equipment.

Always place a commodity gently on the platform. Sudden shocks (which weigh more than the rated capacity of the scale) will damage the weighing sensor irreparable. Careful attention to avoiding shocks will extend the life of the sensor. Place the commodity as near as the center of the platform for accurate readings.

For better results, do not leave loads on the platform for prolonged periods, as this may impair the functioning of the weighing sensor after words.

Disconnect the cord by pulling on the plug only, never the cord.

### Exposure to Liquids

Should water or any other liquid seep into the enclosures; switch off and unplug the unit and have it checked by your qualified personnel before opening it any further. The scale should never be submerged into the water, in extreme conditions like floods, it should be dried completely before operating it further.

### Thunder Storms

Your EWS scale is equipped with a lightning protection circuit, which can prevent most of the damage typically caused by lightning. The effectiveness of the circuit depends how well grounded the instrument is. However, during severe electrical storms it is strongly recommended that the scale be switched off and that the plug is completely disconnected from the main supply.

Long term storage

If scale has to be stored for longer period, be sure that there is no load left on the platter. And battery is disconnected & removed from its housing (under the scale body). Clean and clear the scale and store it in cool dry place.

## **8. Care and Maintenance**

1. Do not subject the scale/ scale pan (platter) to sudden shocks.
2. Clean the platter / scale with soft damp cloth and mild detergents. Do not use harsh abrasives
3. Do not submerge the scale in water or do not pour or splash or spray water directly on it.
4. Do not use acetone or other volatile solvents for cleaning, in order to prevent the sensitive electronic components.

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Our products are produced in India & Taiwan and supplied & serviced from our India, UAE and Kenya hubs; distributed through a world wide dealer network.

All “ENDEL” products are carrying advanced technology, designed by our R & D experts for specific commercial & non-commercial use in Laboratory, Medical, Business and Industrial environments.

Brief summary of “ENDEL” product range is...

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- Pocket Scales
- Gem Scales (Carat Scales)
- Table Top Scales / Super Market Scales
  - Simple Weighing Scales
  - Price Computing Scales
  - Piece Counting Scales
  - Wash Proof/ Water Proof Scales
- Platform Scales
- Deck Scales
- Pallet scales
- Crane Scales
- Hanging (fishing) Scales
- Postal / Parcel Scales
- Bathroom Scales
- Kitchen Scales
- Baby Weighing Scales
- Truck Weighing Scales (Weighbridges)
- Weighing Indicators
- Load Cells
- Accessories
- Customized auto weighing systems

“ENDEL” operates on approved quality management system and is certified to ISO 9001: 2000

Visit our web : <http://www.dubaiweighing.com> for more details

*CONTACT for any further assistance*



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