

DM SERIES

ELECTRONIC WEIGHING SCALE

OPERATION MANUAL

PLEASE READ THIS MANUAL VERY CAREFULLY BEFORE
ATTEMPT TO OPERATE THE SCALE

CONTENTS

CAUTIONS

1. INSTALLATION
2. SPECIFICATIONS
3. KEYBOARD LAYOUT AND DESCRIPTION
4. INITIAL SETUP
5. INSTRUCTION FOR USE
6. TROUBLE SHOOTING
7. DAILY CARE AND MAINTENANCE

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Specifications subject to change without prior notice

CAUTIONS

1. This unit is legal for trade only when it is sealed (and/or stamped) and bearing a serial number. Do not attempt to break the seal (or stamp) affixed to this scale or remove the serial number. Contact your dealer for more information and after sales service.
2. For most accurate weighing result, do not use this scale in where or when the environment condition falls beyond as those listed on **SPECIFICATIONS**.
3. Do not attempt to open this unit or conduct any trouble shootings other than those listed on **TROUBLE SHOOTING**.
4. Do not submerge scale into water.
5. Do not use pressurized water nozzle for cleaning.

Do not use this scale for chemical substances or in any environment that contains chemical vapor.

6. Precision measuring instrument, handle with care.
7. Always apply the rubber cap (**FIG 2 E**) when not in charging.
8. Do not attempt to open scale.

1. INSTALLATION

1.1 Check and make sure that the following accessories are included:

This operation manual

Scale x 1

Plastic platter x 1

Stainless steel cover x 1

Power adaptor x 1

Contact your dealer if any item missed.

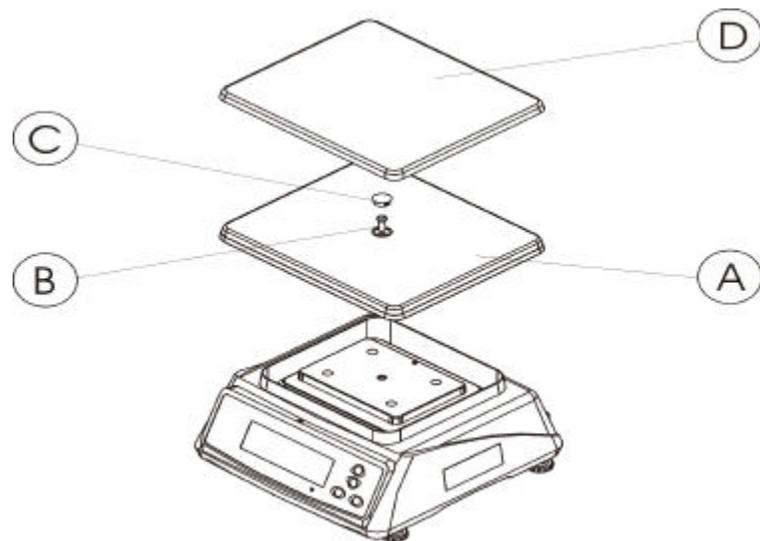


FIG 1

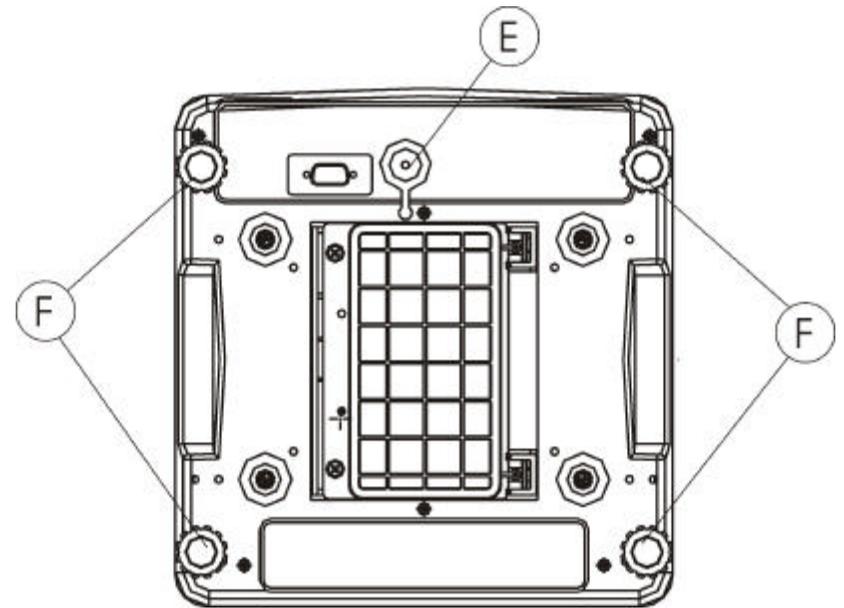


FIG 2

1.2 Locks the plastic platter (**FIG 1 A**) to the platter holder, with the screw (**FIG 1 B**) included, and then apply the rubber cap (**FIG 1 C**).

1.3 Place the stainless steel platter (**FIG 1 D**) onto the plastic platter.

1.4 Power on the scale

- a. Before plugging the power adaptor into electricity outlet, check and make sure that the input voltage of power adaptor matches with the output voltage of the outlet. If not, do not plug in and contact your dealer immediately.
- b. Before first time use, plug the adaptor into the wall outlet and charge the scale for at least 8 hours.
- c. After battery is fully recharged, remove adaptor from scale. Apply the rubber cap (**FIG 2 E**) to seal the DC input jack of scale.

2. SPECIFICATIONS

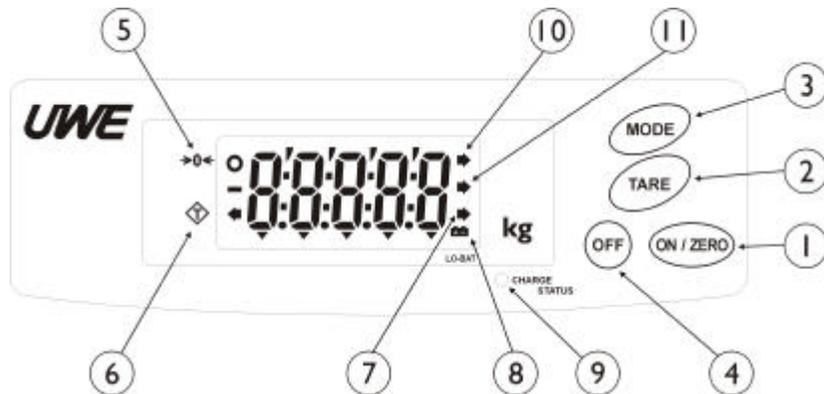
Model No.	Capacity	Division	Accuracy	Min.Load
DM-3000	3000g	1g	1/3000	20g
DM-6000	6000g	2g	1/3000	40g
DM-15K	15kg	0.005kg	1/3000	0.1g
DM-30K	30kg	0.01kg	1/3000	0.2g
DM-1100	1100g	0.1g	1/11000	2g
DM-11K	11kg	1g	1/11000	20g
Tare Range	Full tare range (Subtractive)			
Display	5 x 24mm LCD display			
Operation Environment	0°~40°C (32°~104°F), Non-condensed. R.H. ; 85 %			
Power source	By Built-in rechargeable battery or power adaptor			

Specifications subject to change without notice

NOTE

To comply with the law of certain countries and certain approval requirements, the imperial weight units may be disabled. Contact your dealer for more information.

3. KEYBOARD LAYOUT AND DESCRIPTION



1. ON/ZERO KEY

Press this key to: (a) turn scale on or reset display value to zero during normal operation, (b) return to normal operation during function setup

2. TARE KEY

Press this key to tare off the weight of a container during normal operation.

3. MODE KEY

Press this key to shift among different weight units and display parameters.

4. OFF KEY

Press this key to turn scale off.

5. ZERO INDICATOR

This indicator appears to indicate a zero weight status.

6. TARE INDICATOR

This indicator appears to indicate the tare function is in operation and weight displayed is net weight.

7. WEIGHT UNIT INDICATOR

This indicator appears to indicate the weighing unit being selected is at metric.

8. LO-BAT INDICATOR

When this indicator appears, recharge the scale immediately. Failure to do so may cause unrecoverable damage to the rechargeable battery inside scale.

9. IN-CHARGE INDICATOR

Red color: Recharging battery
Green color: Charging completed

10.WEIGHT UNIT INDICATOR

This indicator appears to indicate the weighing unit being selected. Two avoirdupois weight units are available and this indicator means the weighing unit is at decimal pound (e.g. 5.62 means 5.62 lb).

11.WEIGHT UNIT INDICATOR

This indicator appears to indicate the weighing unit being selected is at pound/ounce (e.g. 2.15.1 means 2 lb and 15.1 ounce).

4. INITIAL SETUP

4.1 PLACING THE SCALE

In order to obtain an accurate weighing result, the scale must be placed on a strong and level surface.

If required, adjust the adjustable feet (**FIG 2F**) underneath scale to obtain a level position. Refer to the bubble indicator for leveling condition.

4.2 INTERNAL SETTING

4.2.1 Select Weight Unit and Display Resolution

The scale is equipped with metric and avoirdupois weight units. Default setting = metric weight unit only. Follow the below steps to enable/disable the avoirdupois units.

Turn scale off

- a. Press and hold **TARE**, then press **ON/ZERO**
- b. Scale displays **F.1**
- c. Press **TARE** twice
- d. Scale displays **F.3**

- e. Press and hold **MODE** for 3 second and then release.
- f. Press **MODE** to shift between desired configurations appears.
- g. Press **ON/ZERO** to confirm and return to normal operation.

NOTE

To comply with the law of certain countries and certain approval requirements, the avoirdupois weight units may be disabled. Contact your dealer for more information.

4.2.2 Select Auto Power Off Setting

The scale is equipped with **Auto Power Off Function**. The scale will be turned off automatically if it is not used for 4 minutes. Follow the below steps to enable/disable **Auto Power Off Function**

- a. Turn scale off
- b. Press and hold **TARE**, then press **ON/ZERO**
- c. Scale displays **F.1**
- d. Press **TARE** three times

- e. Scale displays **F.4**
- f. Press **MODE** to shift between **0._OFF** and **4._OFF**.
- g. To enable **Auto Power Off Function**, press **ON/ZERO** when **4._OFF** appears.
- h. To disable **Auto Power Off Function**, press **ON/ZERO** when **0._OFF** appears.
- i. Press **ON/ZERO** to confirm and return to normal operation.

4.3 SELECT BAUD RATE SETTING

This scale equipped with 6 RS232C output baud rate settings for user to choose the desire print transmission speed. Default setting = 9600.

Follow the below steps to select baud rate.

- a. Turn scale off
- b. Press and hold **TARE**, then press **ON/ZERO**
- c. Scale displays **F.1**
- d. Press **TARE** four times
- e. Scale displays **F.5**
- f. Press **MODE** to select baud rate of 1200, 2400, 4800, 9600, 19200, 38400.

g. Press **ON/ZERO** to confirm and return to normal operation.

Note:

No transmission will be activated if weight detected is less than 20e.

The default data output format of the scale is

Baud Rate = 9600

Data Bit = 8

Stop Bit = 1

Parity = None

5. INSTRUCTION FOR USE

5.1 BEFORE WEIGHING

Make sure that:

- a. The plastic platter is screwed firmly and the stainless steel platter cover is placed on the plastic platter.
- b. The scale is placed on a level and strong surface.
- c. The scale is turned on.
- d. The **ZERO INDICATOR** is on. If not, press **ZERO/ON** to set display to zero.

5.2 WEIGHING

- a. Always place an object onto the platter gently. Excessive force applied to platter may cause damages to sensor inside scale.
- b. The weight of the object would be displayed automatically.
- c. It is a good practice to remove all loads from platter after weighing. It would prolong the lifetime of scale.

5.3 SELECT WEIGHT UNIT

Press **MODE** to shift among kg → decimal lb → lb/oz. → kg weight units. Refer to **4.2.1** for internal setting procedures.

The weight unit used before power off would be employed when the scale is turned on again.

5.4 SMART POWER SAVING FUNCTION

When this function is enable, the backlight will be turned off when constant/zero weight is detected and remains stable for about 10/3 seconds.

Backlight will be automatically turned on again when a weight is detected.

5.5 SET DISPLAYED VALUE TO ZERO WHEN UNLOADED

Pressing the **ON/ZERO** can eliminate a positive or negative value. After the **ON/ZERO** is pressed, the **ZERO INDICATOR** appears.

Refer to **SPECIFICATIONS** for maximum zero range.

5.6 TARE OFF THE WEIGHT OF A CONTAINER

When a container is used, follow the below steps to tare off the weight of the container and get the net weight.

- a. Remove all loads away from platter
- b. Make sure that the **ZERO INDICATOR** is on.
- c. Place the container on the platter.
- d. Press **TARE**.

After **TARE** is pressed, the **TARE INDICATOR** would appear.

Refer to **5.2** for weighing procedures. Weight displayed under is the net weight of the subject matter. Refer to **SPECIFICATIONS** for maximum tare range.

5.7 CLEAR THE TARE FUNCTION

Remove all loads from platter then press **TARE**. After **TARE** is pressed, the **TARE INDICATOR** would disappear.

5.8 RECHARGE THE SCALE

The scale is equipped with a built-in rechargeable battery. When the **LO-BAT INDICATOR** appears, recharge the scale immediately. Failure to do so may cause unrecoverable damage to the rechargeable battery.

Charging is completed when the color of the **IN-CHARGE INDICATOR** turns to green.

6. TROUBLE SHOOTING

Syndrome Scale cannot be turned on

Check: Is the scale charged?

Action: Recharge the scale for at least 8 hours before first time use or plug in the power adaptor before power on the scale.

Check Is the power adaptor inserted properly into both the electricity outlet and the DC inlet of scale.

Action: Secure both ends of the power adaptor and try again.

Syndrome Scale turned off automatically

Check Is **Auto Power Off Function** employed?

Action Refer to 4.2.2 to disable **Auto Power Off Function**.

Check Is the **LO-BAT INDICATOR** on?

Action Apply the power adaptor.

Syndrome Rated capacity cannot be reached

Check Is the **TARE INDICATOR** on?

Action: Turn the scale off. Remove all loads from platter and turn on again.

Check Is there anything obstructing the platter?

Action Remove all obstacles.

Syndrome Weighing result is not accurate

Check Is the scale placed in a level condition?

Action Adjust the adjustable feet to a level condition.

Check Is the scale affected by airflow, vibration or RFI?

Action: Place the scale away from all disturbances.

Check Is the scale calibrated correctly?

Action Contact your dealer.

Check Is the correct weight unit employed?

Action Refer to **4.2.1** and **5.3** for weight unit setting and usage.

Syndrome Scale displays 00000

Check Is the scale overloaded?

Action Remove some loads from platter.

Syndrome Scale displays 00000

Check Is the stainless steel platter cover placed on the platter?

Action Place the stainless steel platter cover onto the platter.

7. DAILY CARE AND MAINTENANCE

- 7.1 Clean the scale with a soft and damp cloth. If necessary, apply a mild detergent.
- 7.2 Do not use any harsh, abrasive material, acetone, volatile solvent, thinner or alcohol for cleaning.
- 7.3 Verify the accuracy of scale periodically. Re-calibrate the scale if necessary.

Note: In some countries, calibration is restricted to be done by an authorized/qualified agent only. Contact your dealer for more information.
- 7.4 It is a good practice to apply the dust cover when operating the scale.
- 7.5 The scale must be placed horizontally during transportation or long time storage.
- 7.6 Remove platter from scale before transportation or long time storage.
- 7.7 Store scale in a dry and clean place.