

**MM SERIES**  
**DIGITAL WEIGHING SCALE**

**OPERATION MANUAL**

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

NOVEMBER 2002 REV 1

*Specifications subject to change without prior notice*

**CONTENTS**

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

## 1. INSTALLATION

### 1.1 CHECK and make sure that the following

items are included:

This operation manual

Scale x 1

Stainless steel platter cover x 1

Power adaptor x 1

Contact your dealer if any items are missing.

**1.2 REMOVE** paper insert underneath platter before using the scale. Then press stainless steel platter downward gently.

### 1.3 POWER THE SCALE

a. Insert one 9V battery into the battery pack underneath the scale, or

b. Apply the power adaptor.

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 the adaptor, contact your dealer immediately.

### CAUTION:

When the power adaptor is being used, take battery out from the battery pack. Failure to do so may cause battery leak/ explosion or damages to the scale.

Do not use any rechargeable battery. The scale does not recharge any battery.

**1.4 RETAIN** the packing materials for future transportation purposes.

### CAUTION:

In some cases, this unit is legal for trade only when it is sealed and bearing a serial number. Do not break or remove the seal or the serial number. Contact your dealer for more information or after sales service.

## 2. SPECIFICATIONS

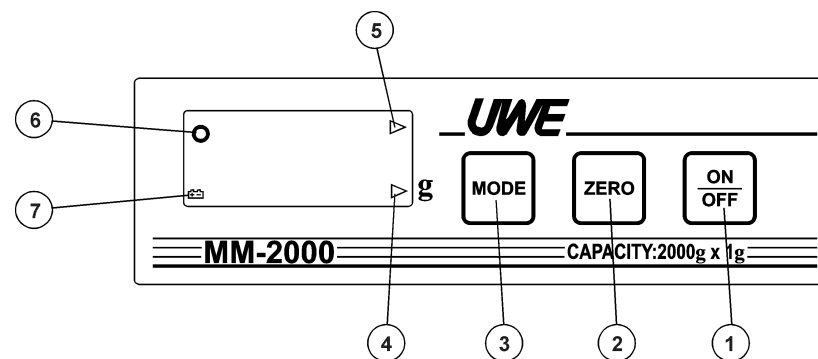
Model No.	Capacity	Division
MM-600	600g/1Lb	0.1g/0.01oz
MM-1200	1200g/2Lb	0.2g/0.01oz
MM-2000	2000g/4.4Lb	1g, 1/4oz
MM-3000	3000g/6Lb	0.5g/0.02oz
MM-5000	5000g/11Lb	2g/ 1/4oz
MM-6000	6000g/13Lb	1g/0.05oz
Power source	1 x 9V battery or Power adaptor	
Max. Zero range	100% of rated capacity (Subtractive)	
Weight Units (NOTE A)	Gram, pound & ounce	
Operation Environment	0°~40°C (32°~104°F), Non-condensed. R.H. ≤ 85%	

*Specifications subject to change without notice.*

### NOTE A:

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

## 3. KEYBOARD LAYOUT AND DESCRIPTION



### 1. ON/OFF KEY

Press this key to turn scale on or off.

### 2. ZERO KEY

Press this key to tare off the weight of a container or set a negative weight displayed to zero when unloaded.

### 3. MODE KEY

Press this key to switch between metric and avoirdupois weight units.

### 4. METRIC INDICATOR

This indicator will appear when the metric weight unit is being employed.

#### 5. AVOIRDUPOIS UNITS INDICATOR

This indicator will appear when the avoirdupois weight unit is being employed.

#### 6. ZERO INDICATOR

This indicator will appear when the scale is at true zero.

#### 7. LO-BAT INDICATOR

This indicator will appear when the battery voltage is too low. Replace battery or apply the power adaptor provided immediately.

#### 4. INITIAL SETUP

##### 4.1 INTERNAL SETTING

##### 4.1.1 Select AUTO POWER OFF FUNCTION Status and Weight Unit

The scale is equipped with **AUTO POWER OFF FUNCTION** and metric and avoirdupois weight unit conversion functions. Follow the below steps to enable/disable **AUTO POWER OFF FUNCTION** and the avoirdupois units.

- a. Turn scale on.
- b. Press and hold **ZERO**, then press **ON/OFF**.
- c. Press **MODE** to select the desire configuration.

The following configurations are available:

- 0-0g:** **AUTO POWER OFF FUNCTION** disable, metric weight unit only
- 4-0g:** **AUTO POWER OFF FUNCTION** enable, metric weight unit only
- 0-Lg:** **AUTO POWER OFF FUNCTION** disable, metric <-> avoirdupois units conversion enable).
- 4-Lg:** **AUTO POWER OFF FUNCTION** enable, metric <-> avoirdupois units conversion enable).

**NOTE: UNDER THE AUTO POWER OFF FUNCTION MODE, THE SCALE WILL TURN OFF AUTOMATICALLY WHEN LEFT IDLE FOR 4 MINUTES.**

**NOTE: DO NOT SELECT ANY CONFIGURATIONS EXCEPT THOSE LISTED ABOVE**

- d. Press **ZERO** after selection is done.
- f. Display will show the span value.
- g. Press **ZERO** again and load the full weight to calibrate the scale.
- h. Press **ZERO** again when reading is stabled.
- i. Display will show "CAL" and then "8888".
- j. Scale now shows the correct reading and to selected configuration is now employed.

## **5. INSTRUCTION FOR USE**

### **5.1 BEFORE WEIGHING**

Make sure that:

- a. The plastic platter is placed correctly on top of load receptor 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 **ON/ZERO** 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 g lb/oz. g weight units. Refer to **4.1.1** for internal setting procedures.

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

#### 5.4 SET DISPLAYED VALUE TO ZERO WHEN UNLOADED

- a. Turn scale off and then on again to set a positive value to zero, or
- b. Press **ZERO** to eliminate or negative value. After **ZERO** is pressed, scale will display **tare** and then a zero weight value would be displayed and the **ZERO INDICATOR** appears.

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

#### 5.5 TARE OFF THE WEIGHT OF A CONTAINER

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

- a. Remove all loads away from platter
- b. Make sure that zero weight and the **ZERO INDICATOR** appear. If not, refer to **5.4** to set display value to zero.
- c. Place the container on the platter.
- d. Press **ZERO** again.

After **ZERO** is pressed, scale will display **tare** and then a zero weight value would be displayed. In this case, the **ZERO INDICATOR** will not appear even though a zero weight is displayed.

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

#### 5.6 CLEAR THE TARE FUNCTION

- a. Remove all loads from platter.
- b. The scale will appear a negative value, which is the weight of the container, and the **ZERO INDICATOR** appears.
- c. Press **ZERO**.
- d. After **ZERO** is pressed, a zero weight will be displayed while the **ZERO INDICATOR** remains.

#### 5.7 LO-BAT INDICATOR

When the **LO-BAT INDICATOR** appears, it means that the battery is faded out. Replace the battery with new one, or apply the power adaptor immediately.

#### **CAUTION:**

When the power adaptor is being used, take out all battery from the battery pack. Failure to do so may cause battery leak/ explosion or damages to the scale.

## 6. TROUBLE SHOOTING

**Syndrome**     **Scale cannot be turned on**

**Check:**        Is the scale powered or battery faded out?

**Action:**        Replace the battery with a new one or apply the power adaptor.

**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 displays "Err"**

**Check**            Is the load applied exceed the rated capacity of scale?

**Action**            Remove all loads from platter and try again.

**Syndrome**     **Scale turned off automatically**

**Check**            Is the **AUTO POWER OFF FUNCTION** employed?

**Action**            Refer to **4.1.1 Select AUTO POWER OFF FUNCTION Status and Weight Unit** to disable the **AUTO POWER OFF FUNCTION**.

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

**Action**            Replace the battery with a new one, or apply the power adaptor immediately.

**CAUTION:** When the power adaptor is being used, take out the battery from the battery pack. Failure to do so may cause battery leak/explosion or damages to the scale.

**Syndrome**     **Weighing result is not accurate**

**Check**            Is the scale placed in a level condition?

**Action**            Relocate the scale to obtain 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 **4.1.1** and **5.3** for weight unit setting and usage.

## 7. DAILY CARE AND MAINTENANCE

- 7.1 Do not splash water on scale. 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 Store scale in a dry and clean place.
- 7.5 Before long time storage, remove all battery from battery pack.
- 7.6 Do not open scale, no user serviceable parts inside. Contact your dealer for after service.