

**XM SERIES**  
**DIGITAL WEIGHING SCALE**

**OPERATION MANUAL**

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

AUGUST 1999 REV 2

*Specifications subject to change without prior notice*

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## 1. INSTALLATION

1.1 **CHECK** and make sure that the following items are included:

This operation manual

Scale x 1

Platter x 1

Dust cover x 1

Power adaptor x 1 (if purchased)

Stainless steel platter cover (if purchased)

Built-in rechargeable (if purchased)

Contact your dealer if any items are missed.

1.2 **INSERT** the platter into the scale carefully. No excessive force is required. Then place the stainless steel platter cover (if purchased) onto the platter.

### 1.3 POWER THE SCALE

#### 1.3.1 For Dry Battery Version

a. Insert 4 size D/UM 1 batteries 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 out all the batteries from the battery pack. Fail to do so may cause battery leak/explosion or damages to the scale.

Do not use any rechargeable batteries, the scale does not recharge these batteries.

#### 1.3.2 For Built-in Rechargeable Battery Version

Before first time use, plug the main adaptor into the wall outlet and charge the scale for at least 8 hours.

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

#### **Caution:**

In most 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

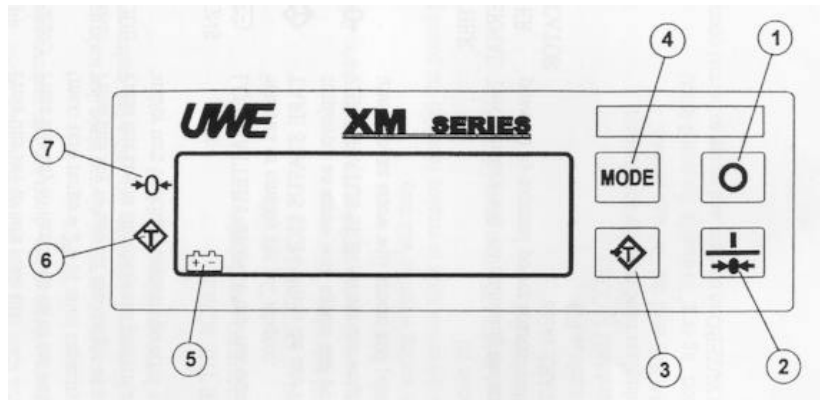
Model No.	Capacity	Division
XM-1000	1000g/2.2lb	0.5g/0.001 lb
XM-2000	2000g/4.4lb	1g/0.002 lb
XM-4000	4000g/8.8lb	2g/0.005 lb
XM-10K	10kg/22lb	5g/0.01 lb
XM-20K	20kg/44lb	0.01kg/0.02 lb
Power source	<b>Dry battery version:</b> 4 x size D/UM 1 batteries, or	
	_____	
	_____	
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*Specifications subject to change without notice.*

To comply with the law of certain countries,

Contact your dealer for more information.

### 3. KEYBOARD LAYOUT AND DESCRIPTION



#### 1. OFF KEY

Press this key to turn scale off.

#### 2. ON/ZERO KEY

Press this key to turn scale on or set weight to zero when unloaded.

#### 3. TARE KEY

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

#### 4. MODE KEY

Press this key to switch among metric and avoirdupois weight units with or without backlight (optional).

#### 5. LO-BAT INDICATOR

When this indicator appears:

- a. **For dry battery version:** replace the batteries with new ones, or apply the power adaptor immediately.

#### **CAUTION:**

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

- b. **For built-in rechargeable battery version:** Apply the power adaptor and recharge the scale immediately. Fail to do so may cause unrecoverable damages to the rechargeable battery inside scale.

#### 6. TARE INDICATOR

An arrow will appear and point at this sign to indicate the tare function is in operation and weight displayed is net weight.

## 7. ZERO INDICATOR

An arrow will appear and point at this sign to indicate a zero weight status.

## EXTERNAL POWER INDICATOR (DRY BATTERY VERSION)

This indicator is located at the left-hand side of the scale. This indicator will be turned on when an external power adaptor is powering the scale.

## IN-CHARGE INDICATOR (BUILT-IN RECHARGEABLE BATTERY VERSION)

This indicator is located at the left-hand side of the scale. Charging status IS displayed by different colors:

Red: Recharging battery

Green: Charging completed

## 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 underneath scale to obtain a level position. Refer to the bubble indicator (optional) for leveling condition.

### 4.2 INTERNAL SETTING

#### 4.2.1 Select Weight Unit

The scale is equipped with metric and avoirdupois weight units. Follow the below steps to enable/disable the avoirdupois units.

- a. Turn scale off
- b. Press and hold **TARE**, then press **ON/ZERO**
- c. Scale displays **F.1**
- d. Press **TARE** twice
- e. Scale display **F.3**
- f. Press and hold **MODE** until the kg or lb

- sign appears.
- g. Press **MODE** to shift between kg and lb sign.
  - h. To enable the avoirdupois units, press **ON/ZERO** when the lb sign appears.
  - i. To disable the avoirdupois units, press **ON/ZERO** when the kg sign appears.
  - j. After **ON/ZERO** is pressed, the scale will return to operation status.

- h. To disable the **AUTO POWER OFF FUNCTION**, press **ON/ZERO** when **0.\_OFF** appears.
- i. After **ON/ZERO** is pressed, the scale will return to operation status.

#### 4.2.2 Select **AUTO POWER OFF FUNCTION** Setting

The scale is equipped with **AUTO POWER OFF FUNCTION**. Under this function, the scale would be turned off automatically if it is not used for 4 minutes. Follow the below steps to enable/disable this 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 display **F.4**
- f. Press **MODE** to shift between **0.\_OFF** and **4.\_OFF**.
- g. To enable the **AUTO POWER OFF FUNCTION**, press **ON/ZERO** when **4.\_OFF** appears.

## 5. INSTRUCTION FOR USE

### 5.1 Before Weighing

Make sure that:

- a. The platter is inserted correctly into the scale.
- 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 a load onto the platter gently. Excessive force or shock may cause damages to the sensor inside scale.
- b. The weight of the load would be displayed automatically.
- c. It is a good practice to remove all loads from platter after weighing. It would prolong the lifetime of sensor inside 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 TURN BACKLIGHT (OPTIONAL) ON/OFF

Press **MODE** to shift among various weight units with backlight or without backlight.

Even though the backlight function is employed, backlight will be turned off when:

- a. A zero weight is detected and remains stable for 4 seconds, or
- b. A weight remains stable for 20 seconds.

Backlight will be automatically turned on again when a new weight is detected or a key is pressed.

### 5.5 SET DISPLAYED VALUE TO ZERO WHEN UNLOADED

Press **ON/ZERO** to eliminate a positive or negative value. After **ON/ZERO** is pressed, the **ZERO INDICATOR** would appear.

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 it and get a net weight result.

- 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 the **TARE** is pressed, the **TARE INDICATOR** would disappear.

## 5.8 WHEN LO-BAT INDICATOR APPEARS

When the **LO-BAT INDICATOR** appears:

### 5.8.1 For Dry Battery Version

Replace the batteries with new ones, or apply the power adaptor immediately.

The **EXTERNAL POWER INDICATOR** will be turned on when the power adaptor is powering the scale.

#### **CAUTION:**

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

### 5.8.2 For Built-in Rechargeable Battery Version

Apply the power adaptor and recharge the scale immediately. Fail to do so may cause unrecoverable damages to the rechargeable battery inside scale.

The scale can remain in operation when being recharged.

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

## 6. TROUBLE SHOOTING

### Syndrome Scale cannot be turned on

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

**Action:** **For dry battery version:** Replace the batteries with new ones if needed or apply the power adaptor. **For built-in rechargeable battery version:** Recharge the scale for at least 8 hours before first time use or plug in the power adaptor before turning the scale on.

**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 00000

**Check** Is the load applied to platter excess the rated capacity of scale?

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

### Syndrome Scale displays 00000

**Check** Is the platter inserted to the scale correctly?

**Action** Insert the platter to scale correctly.

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

**Action** Place the stainless steel platter cover onto the platter.

### Syndrome Scale turned off automatically

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

**Action** Refer to 4.2.2 to disable the **AUTO POWER OFF FUNCTION**.

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

**Action** **For dry battery version:** replace the batteries with new ones, or apply the power adaptor immediately.

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

**For built-in rechargeable battery**

**Version:** Apply the power adaptor and recharge the scale immediately.

**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** 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 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 **4.2.1** and **5.3** for weight unit setting and usage.

## **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.

7.8 (For dry battery version) Before long time storage, remove all batteries from battery pack.