

BM & FM SERIES

BENCH/FLOOR SCALE

OPERATION MANUAL

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

AUGUST 1999 REV

Specifications subject to change without prior notice

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1. INSTALLATION

1.1 CHECK and make sure that the following accessories are included inside the package.

This Operation Manual, Indicator x 1, Platform + stainless steel cover x 1, Mains adapter x 1 (BM mode), Pillar x 1 and Screws & tool set x 1.

Contact your dealer if any item missed.

1.2 FIXING THE PILLAR

1.2.1 Thread the cable from platform through the pillar very carefully.

1.2.2 Insert the pillar to the pillar support attached to the platform in a upright position, then locked it by the Philip head screw provided.

1.2.3 Connect the cable plug to the indicator receiving plug.

1.2.3.1 After plugs are connected, lock the plugs by turn the plug screw in clockwise direction.

1.2.4 FIXING THE INDICATOR

FOR BM MODEL: Insert the indicator to the pillar and lock it a the Philip head screw provided.

FOR FM MODEL: Lock the indicator to the pillar by 2 screws provided.

1.3 Power on the Scale


1.3.1 Check the input voltage of the main adapter/scale matches with the voltage of electricity outlet. Contact your local dealer if not.

1.3.2 Before first time operation, plug the main adapter/mains plug to the wall outlet and charge the scale for at least 8 hours.

1.4 Retain the package for future transportation of scale.

2. SPECIFICATIONS

GENERAL SPECIFICATIONS

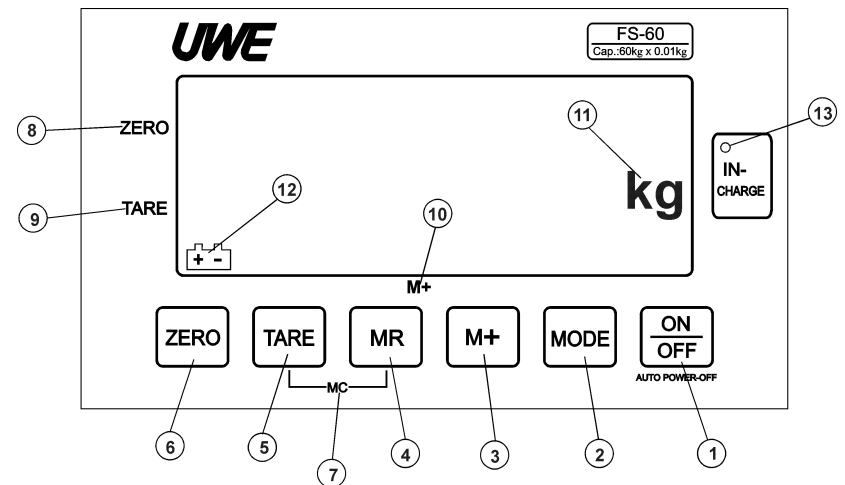
Model No.	Capacity	Division
BM-30	30kg	0.005kg
BM-60	60kg	0.01kg
BM-150	150kg	0.02kg
FM-60	60kg	0.01kg
FM-150	150kg	0.02kg
FM-300	300kg	0.05kg
Platform size	BM: 330 x 450mm FM: 420 x 520mm	
Power source	Built-in rechargeable battery or power adaptor	
Max. Tare range	Up to 100% of rated capacity	
Max. Zero range	Up to 2% rated capacity	
Weight Units (Note A)	Metric, decimal pound and pound/ounce	
Operation Environment	0°~40°C (32°~104°F), Non-condensed. R.H. 	

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



ON/OFF KEY

Press this key to turn scale on or off.

2. MODE KEY

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

M+ KEY

Press this key to enter present weight value into memory.

4. MR KEY

Press this key to recall the accumulated weight value in memory.

5. TARE KEY

Press this key to tare off the weight of a container and get the net weighing result.

6. ZERO KEY

Press this key to reset weight displayed to zero when unloaded.

7. MC KEY

Press the **MR** and **TARE** key simultaneously to clear all data in memory.

8. ZERO INDICATOR

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

9. TARE INDICATOR

An arrow will appear and point at this sign when the tare function is being employed.

10. M+ INDICATOR

An arrow will appear and point at this sign when the memory contains data.

11. WEIGHT UNIT INDICATOR

"kg" indicates the metric unit is being employed.

"lb" indicates the avoirdupois unit is being employed.

12. LO-BAT INDICATOR

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

13. IN-CHARGE INDICATOR

Red color: Recharging battery

Green color: Charging completed

4. INSTRUCTIONS FOR USE

4.1 PLACING SCALE

Use this unit on a hard and strong surface, where is free from RF interference, vibration, fire, direct sunlight and excessive moisture. For accurate weighing, always place this unit on a level surface, if necessary, adjust the adjustable feet underneath the platform to obtain a level condition.

4.2 POWER THE SCALE

Press **ON/OFF** to turn scale on.

4.3 INTERNAL SETTINGS

Before weighing, make sure the zero sign is on and stable.

4.3.1 Select Weight Unit

This unit is equipped with 3 weight unit modes, i.e. kg, lb and lb/oz.

Default weight unit = kg (without pound units)

Follow the below step to employ (disable) the pound weight unit.

- a. turn scale off
- b. press and hold **TARE**, then press **ON/OFF**. Scale displays "**F.1**"
- c. press **TARE** twice. Scale displays "**F.3**"
- d. press and hold **MODE**
- e. press **MODE** unit the "**lb**" signs appear(or select "**kg**" to disable the pound unit)
- f. press **ZERO** to confirm and return to normal operation status.
(If the pound weight is selected) Press **MODE** to shift among, lb and lb/oz during operation.

4.4 TO TARE OFF THE WEIGHT OF A CONTAINER

4.4.1 Place a container onto the platform, then press **TARE** to tare off the weight of this container. After **TARE** is pressed, the tare sign appears.

4.4.2 To Clear Container Weight from Memory

To clear the weight of the container, remove the container and all loads from the platform and press **TARE**, then tare sign would disappear.

4.5 Zero the Weight Displayed When Unloaded

If zero sign does not appear when unloaded, press **ZERO** to reset weight to zero.

to save. Scale Displays "**P.1**" and the M+ arrow appears indicating total number of total entries and the memory function is being employed.

4.6 PLACING A LOAD

Always place a load onto the platform gently. Sudden shock/excessive force may cause damage to the weight sensor inside. It is a good practice to remove all loads from platform immediately after weighed. This would prolong the life time of the weight sensor.

4.8.2 Recall Weight Accumulated

Press **MR**, scale displays total number of entries and total accumulated weight of these translations. Scale return to normal operation status 2 seconds after accumulated weight displayed.

4.7 SELECT BACKLIGHT (option) STATUS

To enable/disable backlight function, press **MODE** until the desired status is attained. Backlight would automatically go off 3 second after zero weight is detected and automatically turned on immediately after a load is detected.

4.8.3 Memory Clear

Press and hold **MR**, then press **TARE** after accumulated weight display. Scale displays "**P.0**" and all data is cleared.

4.8 WEIGHT MEMORY FUNCTION

4.8.1 Save a Weight to Memory and Auto Weight Accumulation

When weight display is stable, press M+

4.8.4 CAUTIONS

ALL data stored will be erased if:
the scale is turned off
weight unit is changed

4.9 SELECT AUTO POWER OFF STATUS

This unit is equipped with **AUTO POWER OFF** function.

Default setting = auto off after 4

minutes unused.

Follow the below steps to disable/employ the AUTO POWER OFF function.

- a. turn scale off
- b. press and hold **TARE**, then press **ON/OFF**. Scale displays "**F.1**"
- c. press **TARE** for three times. Scale displays "**F.4**"
- d. press **MODE** to select:
to disable the auto power off function select "**0-OFF**"
to employ the auto power off function select "**4-OFF**"
- e. press **ZERO** to confirm and return to normal operation status.

5.TROUBLE SHOOTING

SYNDROME SCALE CANNOT BE TURNED ON

CHECK Is the rechargeable battery charged?

ACTION Recharge the battery for at least 8 hours or plug in the mains adapter/input.

CHECK Is the main adapter/AC input inserted properly both to the wall outlet?

CHECK Is the output plug of the main adapter inserted properly into the DC inlet of the scale?

ACTION Secure both ends of the main adapter to the wall outlet and DC inlet of scale.

SYNDROME SCALE TURNED ON BUT ZERO WEIGHT CAN NOT BE ATTAINED

CHECK Is anything load applied to platform?

ACTION Remove all loads from platform.

CHECK Is the scale affect by air flow, vibration or RF?

ACTION Place scale away from all

disturbances.

SYNDROME RATED CAPACITY CANNOT BE ATTAINED

CHECK Is the TARE sign go on?

ACTION Turn scale off, remove all loads from platform and turn of again.

CHECK Anything obstructing the platform?

ACTION Remove all obstacles.

SYNDROME SCALE DOES NOT WEIGH CORRECTLY

CHECK Is the right weight unit employed?

ACTION Select the right weight unit.

CHECK Is the scale placed horizontally?

ACTION Adjust the adjustable feet to obtain level condition.

CHECK Is the scale affect by air flow, vibration or RF?

ACTION Place scale away from all disturbances.

CHECK Is the scale calibrated correctly?

ACTION Contact your local dealer.

CHECK Is part of the load striking against the pillar?

ACTION Place load properly.

SYNDROME SCALE TURNED OFF AUTOMATICALLY

CHECK Is the Auto Off Function employed?

ACTION Reset the Auto Off Function.

CHECK Is the LO-BAT sign is on?

ACTION Recharge the battery or plug in the mains adapter/input.

SYNDROME SCALE DISPLAYS "00000"

CHECK Is the weight of load excesses the max. capacity?

ACTION Removed loads on platter and check again.

6. DAILY CARE AND MAINTENANCE

- 6.1 Clean the platform and indicator with a soft and damp cloth, if necessary with a mild detergent.
- 6.2 Do not use any harsh, abrasive material, acetone, volatile solvent, thinner or alcohol for cleaning.
- 6.3 Verify the accuracy of the scale periodically. Re-calibrate the scale when needed.

NOTE: in some countries calibration is restricted to be done by qualified/authorized agent only. Contact your local dealer for more information.

- 6.4 Clean the scale before long time storage.
- 6.5 Store the scale in a dry and cool place.

7. INSTALLATION DIAGRAM

