Millennium Mechatronics

MW SERIES
Weighing Scales

Operation Manual

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1. INTRODUCTION

The MW series of weighing scales provides an accurate and versatile range of general purpose waterproof weighing scales. There are 4 models within the range. The platform size is 190mm x 230mm, with a capacity range from 3kg to 25kg.

All units include tare, zero, and change weighing unit functions.

2. KEY DESCRIPTIONS

ON/OFF : Power button

TARE/UNIT : Press this key to tare, hold button for 4 seconds to change weighing unit. When in *setting mode*, this is used as the enter key.

ZERO : Re-zero the scale. When in setting mode, this key is used to change set data.

3. DISPLAYS

The LCD display will show values according to the settings. Terms on the scale include:

Zero: Zero indicator

Stable: Stability indicator

Net: Tare indicator, current scales in net weight mode

**Low battery. Charge immediately when icon appears on display.

Kg: Current weighing measure is kilograms

U2: Other current weighing unit (lb/g/tl).

4. OPERATING THE SCALE

4.1 Zeroing the display

Press the "ZERO" key if you wish to calibrate or reset the weighing sensors. By pressing the button for 3 seconds, you can reset the zero point. This will only be necessary when the platform is empty. When the zero point is obtained the display will show zero.

The scale has an automatic zero tracking function to account for minor drifting or accumulation of material on the platform.

If the scale indicates that there is weight sitting on the platform when it is empty, you may need to press the **ZERO** key to reset it (when weight more than 10% capacity, zero function disable).

4.2 Tare

Ensure that the scale is showing zero. If necessary, press the **ZERO** key.

Place a container on the platform, a value for its weight will be displayed.

Press the **TARE/UNIT** key to tare the scale.

The displayed weight will be stored as the tare value. That value will be subtracted from the display, and the display will show zero. The "NET" indicator will be on. As more items are added to the container, only the weight of the product will be shown.

The scale can be tared a second time if another product is added to the first item. Again, only the weight that is added after taring will be displayed.

When the container is removed a negative value will be shown. If the scale was tared prior to removing the container, the value shown will be the gross weight of the container plus all the products that have been removed. The zero indicator will also be on because the platform has reverted to the condition it was when the ZERO key was last pressed.

4.3 Change weighing unit

Press the TARE/UNIT key three second, weighing unit will change between kg and U_2.

5. PARAMETERS & CALIBRATION
5.1 Entering setting mode

-The scale has 9 parameters that can be set by the user, and a method of entering calibration mode.

-To set the parameters or calibration, first turn off the weighing scales, then hold the TARE/UNIT key and press the ON/OFF key until the display show "F0 CAL".

5.2 Calibration

After entering *setting mode*, the display will show "F0 CAL". Press the TARE/UNIT key.

-The display will show "UNLOAD"
-Empty the platter.

-After the STABLE indicator appears, press the TARE/UNIT key again.

-Display will show the calibrated weight.
-Press the ZERO key to select the calibrate weight.
-After selection, press the TARE/UNIT key, it should display "LOAD", then put the calibrate weight on.

-After the STABLE indicator appears, press the TARE/UNIT key, and the display should show "SUCC". ---After the scale has finished self-checking again, it will be ready for use.

5.3 Changing resolution
After entering *setting mode*, the display will show "F0 CAL", press the

ZERO key. The display will show "F1 inc".

-Press the TARE/UNIT key to enter and press the ZERO key to select increment.

-Press the TARE/UNIT key to confirm your selection. To exit the *setting mode,* press the ZERO key and the TARE/UNIT key at the same time.

5.4 Check internal counts

After entering *setting mode*, the display will show "F0 CAL", press the **ZERO** key twice. The display will show "F2 INP".

-Press the **TARE/UNIT** key to enter, the display will show internal counts.

-Press the **TARE/UNIT** key to exit from the setting mode

5.5 Setting the backlight mode

After entering *setting mode*, the display will show "F0 CAL", press the **ZERO** key three times. The display will show "F3 BK".

-Press the **TARE/UNIT** key to enter, press the **ZERO** key change backlight mode (AU: automatic, OF: always off, ON: always on).

-Press the **TARE/UNIT** key to confirm selection, and press the **TARE/UNIT** key and the **ZERO** key at the same time to exit from the *setting mode*.

5.6 Setting the second unit

After entering *setting mode*, the display will show "F0 CAL", press the **ZERO** key four times. The display will show "F4 unt". -Press the **TARE/UNIT** key to enter, press the **ZERO** key select the second unit (g, lb, tj).

-Press the **TARE/UNIT** key to confirm selection, and press the **TARE/UNIT** key and the **ZERO** key at the same time to exit from the *setting mode*.

5.7 Setting auto power off

After entering *setting mode*, the display will show "F0 CAL", press the **ZERO** key five times. The display will show "F5 OFF".

-Press the **TARE/UNIT** key to enter, press the **ZERO** key select the auto power off time (0, 3, 5, 10, 20minutes).

-Press the **TARE/UNIT** key to confirm selection, then press the **TARE/UNIT** key and **ZERO** key at the same time to exit from the *setting mode*.

5.8 Changing capacity

After entering *setting mode*, the display will show "F0 CAL", press the **ZERO** key six times. The display will show "F6 CAP".

-Press the **TARE/UNIT** key to enter, the display will show "pin---"

-Press the **TARE/UNIT** key to enter the password (the current password is 315)

-Press the **ZERO** key to select the active value, and the **TARE/UNIT** to enter after input password.

-Press the **TARE/UNIT** key to change current capacity, and press the **TARE/UNIT** key and the **ZERO** key at the same time to exit from the *setting mode*.

5.9 Setting the auto zero tracker

After entering *setting mode*, the display will show "F0 CAL", press the **ZERO** key seven times. The display will show "F7 azn".

-Press the **TARE/UNIT** key to enter, and press the **ZERO** key to select the auto zero value (0.5d, 1d, 2d, 4d).

-Press the **TARE/UNIT** key to confirm selection and press the **TARE/UNIT** key and the **ZERO** key at the same time to exit from the *setting mode*.

5.10 Setting the A/D speed

After entering *setting mode*, the display will show "F0 CAL", press the **ZERO** key eight times. The display will show "F8 SPD".

-Press the **TARE/UNIT** key to enter, and press the **ZERO** key select the A/D speed (7.5, 15, 30).

-Press the **TARE/UNIT** key to confirm selection, then press the **TARE/UNIT** key and the **ZERO** key at the same time to exit from the *setting mode*.

6. BATTERY OPERATION

When the battery voltage is low, the ⊟ indicator will turn on. The battery should be charged as soon as the arrow appears. To charge the battery simply plug it into the AC adapter. The scale does not need to be turned on.

The LED above the display window will become green when the battery is fully charged. If the light is red, it indicates that it is still charging.

As the battery is used it may fail to hold a full charge. If the battery life becomes unacceptable then contact your distributor.