

indicates calibration error and the calibration process should be repeated more slowly.

Please calibrate on a very stable flat surface!

INACCURACY/ERROR

The primary reasons for inaccuracy or malfunction are low batteries, incorrect calibration, overload or operating on an unstable surface. Please keep this in mind and maintain and operate your scale properly. The scale is a precise instrument and must be handled with the utmost care and caution.

FEATURE

➤ **Overload**

When an applied load exceeds the maximum capacity. It will display "O_LD", remove the excessive load immediately!

Remember: You can permanently damage the scale by overloading it!

➤ **Negative Value**

Any tared value or a value left in memory will be displayed as a negative number once all weight is removed from the tray. Press **TARE** to re-Zero the unit.

MA-100A Manual

Precautions Before Using The Scale

The scale should always be used in an environment, which is free from excessive air currents, corrosives, vibration, and temperature or humidity extremes. These factors will affect displayed weight reading.

Scale Operation Notes

- Do not Overload (exceed the capacity) of the scale including the weight of any trays or bowls combined with objects you may be weighing. Overload or Dropping/shocking the scale will damage the sensor and void your warranty.
- Allow sufficient warm up time. Turn the scale On and wait several seconds to give the internal components a chance to stabilize before weighing.
- The cleaner the environment the better. Dust, dirt, moisture, vibration, air currents and proximity to other electronic equipment can all cause an adverse effect on the reliability and accuracy of your scale.
- Handle with care. Gently apply all items to be weighed onto tray top. Although this scale is designed to be quite durable, avoid rough treatment as this may permanently damage the internal sensor and void your warranty.
- Avoid lengthy exposure to extreme heat or cold, your scale works best when operated and stored at normal room temperature.
- Place the item to be weighed on the platform, after the stable weight

is displayed remove the item immediately. This will prolong the longevity and accuracy of this weighing instrument.

Turn on The Scale

Press **ON/OFF** to turn on the scale. The scale will go through a quick warm up procedure and self test, it will show “-88888” and all segments of the display on the display and then be ready for use.

Display Window

→0← : Scale is in Zero mode.  : Scale is in TARE mode.

 : Battery is at low voltage.

“O_LD” : The weight is over load.

KEY PAD FUNCTIONS

◆ **MODE**

Unit selection: Press and release the key once to change weight unit. You can select g(grams), ct(carats), oz(ounces), dwt(pennyweight).

◆ **ON/OFF** : Power switch

Press this key to turn unit on. Once the unit is on, press the same key to turn the scale off.

◆ **TARE** : Zero or tare

Press **TARE** to reset the scale to zero.

Battery Operation

1) two CR2032 Lithium Cell (3V*2) are required. Before replacing batteries, always remember to install the Scale's cover & be careful

NOT to push on the weighing platform (this can cause a fatal overload even if the power is off).

2) To install batteries:

- Release the battery cover by sliding out-wards.
- Place batteries into battery compartment aligned correctly.
- Replace battery cover.

3) The scale is now ready for battery operation.

(Advanced users only) CALIBRATION

IMPORTANT: This scale was professionally factory calibrated before shipment. It does NOT need to be recalibrated before use and will not usually require calibration during its lifetime. However some advanced users who seek optimum accuracy may wish to calibrate the scale periodically to maintain perfect accuracy. Incorrect calibration can occur if you do not follow the steps exactly. You will need a proper (e.g 100g(MAX.CAP:100g)/ 500g(MAX.CAP:500g) weight to calibrate this scale.

- Turn the scale OFF and place it on a FLAT, very stable surface and turn on the scale.
- Press and hold **MODE** 2 minutes, wait for the display to show “CAL”. Press **MODE** again, the display will show “CAL” and then show the proper weight for calibration twinkling (e.g. 100.00)
- Place the calibration weight on the tray, wait 3 seconds then calibration is complete when “PASS” is displayed. It indicates calibration error when “FAIL” is displayed.

NOTE: If after calibration your scale does not read accurately, this