

AWS

Mouse Scale

User Manual



MSC-200 (200g x 0.01g)

MSC-650 (650g x 0.1g)

Mouse Scale

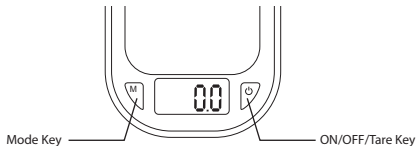
Thank you for purchasing the American Weigh Mouse Scale. Please read all operating instructions carefully before use. Scales are precision measuring devices and should always be handled with proper care. To ensure years of reliable service, keep these simple tips in mind:

- Do not exceed the scale's maximum capacity. Overloading your scale can permanently damage it!
- Avoid exposure to extreme heat or cold. Scales perform best at normal room temperature. If temperatures have changed dramatically, calibration and adjustment may be necessary.
- Allow your scale to warm up for 30-60 seconds before performing calibration and adjustment(if available).
- Store your scale in a clean, dry location. Dust, dirt, and moisture can accumulate on the weighing sensors and electronics causing inaccuracy or malfunction.
- Avoid using your scale in close proximity to strong radio wave emitting devices such as computers, cash registers, and cordless phones.
- Always weigh on a flat and level surface, free from vibrations and drafts. The corner of a room is usually the most stable.
- Gently apply all items to be weighed. Do not drop items onto the weighing platform.
- Avoid dropping your scale. The warranty does not cover damage due to rough treatment or overload.
- Check the batteries first if you are having any trouble with your scale. This simple step can remedy most scale issues.
- Do not disassemble your scale. This product contains no user serviceable parts.

I. Part List

1. Scale
2. Removable Cover / Tray
3. USB Cable

II. Key Description



III. Plug-and-Play Compatibility

This device is plug-and-play compatible and designed to work without installing any additional software.


1. Plug the small end of the included USB cable into the Mouse Scale.
2. Insert the large end of the USB cable into an open USB port on your computer.
3. The computer should recognize the new input device momentarily and begin working.

IV. Charging the Scale

Plugging the mouse scale into a USB outlet also charges the scale's internal battery. The scale can function while charging.

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V. Operation


1. Place the scale on a flat, level surface and press the  key to turn the scale on.
2. Once the start-up process completes and the scale goes to zero you are ready to weigh.
3. Place the quantity to be weighed onto the weighing platform.
4. Wait a couple seconds for the display to stabilize before taking a weight reading.

VI. Changing the Unit of Measure


1. Press the **M** key to change the scale's displayed unit of measure.
2. If the scale is turned off then back on, it will default to the last unit used.
 - **MSC-200 Units:** g (gram), oz (ounce), ct (carat), gn (grain)
 - **MSC-650 Units:** g (gram), oz (ounce), ozt (troy ounce), pennyweight (dwt)

VII. Using the Tare Feature

You can use this scale's tare feature to subtract the weight of an empty container or vessel for net weight determination. NOTE: The weight of the container will subtract from the available capacity.

1. Place the empty container or vessel on the weighing platform.
2. Tap the  key once. The display will then reset to zero. If the container is removed, it's weight will be displayed as a negative number.
3. You may now fill the container with the quantity to

be weighed. The display will show the net weight of the contents.

4. To return to normal weight display (gross weight), remove any items from the weighing platform and press the  key again to re-zero the scale.


VIII. Calibration

Calibration and adjustment are performed at the factory. However, the weighing range can shift slightly during shipping. Also, due to changes in local acceleration of gravity around the world, adjustment is recommended when moving the scale from one location to another. To check calibration:

1. Place the required calibration weight on the scale and note the displayed value.
2. If the displayed value is not within acceptable tolerance (see chart below), adjustment is required.

Model	Acceptable Tolerance (\pm)	Calibration Weight	Recommended Accuracy Class
MSC-200	0.02g	200g	OIML M2
MSC-650	0.2g	500g	OIML M2





IX. MSC-200 Adjustment

1. Turn the scale OFF.
2. While holding the M key, tap the  key to turn the scale on then release both keys.
3. The display will show a random number, press the [M] key again.
4. The display will flash "200.00". Place the required weight on the platform and wait for 3 seconds.
5. The display will show "PASS" and "200.00". Remove

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the weight and press  to turn the scale off. Calibration is complete!

X. MSC-650 Adjustment

1. Turn the scale OFF.
2. While holding the [M] key, tap the  key to turn the scale on then release both keys.
3. The display will show a random number, press the  key again.
4. The display will show "Zero" followed "500.0". Place the required weight on the platform then press the  key again.
5. The display will show "PASS". Remove the weight and press  to turn the scale off. Calibration is complete!

XI. Troubleshooting

- **Problem:** Scale will not turn on
- **Solution:** Check the batteries

- **Problem:** Displayed weight fluctuates randomly
- **Solution:** Make sure your workspace is stable and

free of any air currents or vibration

- **Problem:** Displayed weight is inaccurate
- **Solution:** Perform a calibration adjustment

XII. Error Codes

1. **OUTZ** - Zero range has shifted. Perform calibration adjustment. If the problem persists, the load cell may be permanently damaged due to overloading.
2. **88888** - Maximum capacity exceeded. Remove the extra weight to avoid damaging the load cell.
3. **L** - Batteries are low. Replace the batteries.

	MSC-200	MSC-650
Max. Capacity	200g	650g
Readability	0.01g	0.1g
Min. Capacity	0.03g	0.2g
Power	USB Cable / Internal Rechargeable	
Platform Dimensions	2.3 x 2.8"	
Scale Dimensions	2.3 x 4.8 x 1.5"	
Warranty	10 Year Limited Warranty	

XIII. Capacity/Readability Charts

MSC-200	MSC-650
200x0.01g	650x0.1g
7.05x0.001oz	22.92x0.01oz
1000x0.05ct	20.89x0.01ozt
3089x0.1gn	417.9x0.1dwt