



American Weigh Scales

BS-Series

User Manual



BS-100 (100x0.01g)

BS-250 (250x0.1g)



BS-Series Manual

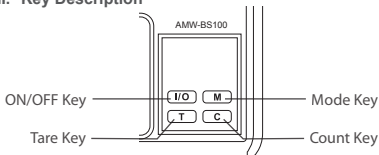
Thank you for purchasing the American Weigh BS-Series digital pocket scale. Please read all operating instructions carefully before use. Scales are precision measuring devices and should always be handled with proper care. To ensure years of reliable service, keep these simple tips in mind:

- 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 (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

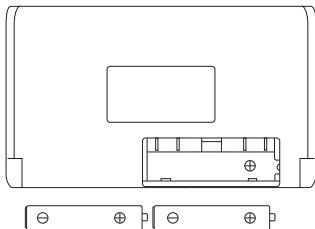
1. Scale
2. Weighing Tray
3. AAA Batteries (x2)

II. Key Description



III. Battery Installation

1. Before using the scale for the first time, check the battery compartment and remove any plastic insulation strips or packaging that may be in place to prevent battery drainage during shipping/storage.
2. If you are replacing the batteries, make sure the positive and negative contacts are properly aligned.



IV. Operation

1. Place the scale on a flat, level surface and press the **I/O** 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.

V. Changing the Unit of Measure

1. Press the **M** key to change the scales displayed unit of measure.
2. If the scale is turned off then back on, it will default to the last unit used.
 - **BS-100 Units:** g (gram) ▶ dwt (pennyweight) ▶ ct (carat) ▶ gn (grain)
 - **BS-250 Units:** g (gram) ▶ oz (ounce) ▶ ozt (troy ounce) ▶ dwt (pennyweight)

VI. 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. Press the **T** 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 **T** key again to re-zero the scale.

VII. Using the Counting Feature

1. Press the **I/O** key to turn the scale on.
2. Place a sample quantity of the items being weighed on the platform. This quantity should either be 25, 50, 75, or 100 pieces.
3. Once the weight is stable, press and hold the **C** key to enter counting mode setup.
4. The current sample size will be displayed on the LCD (ie. "25").
5. Press the **M** key to change it between 25, 50, 75, or 100 and press **C** to confirm. The count will be displayed on the LCD. You may now add more items. As items are remove items and the count will update automatically.

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 on next page), adjustment is required.

Model	Acceptable Tolerance (\pm)	Calibration Weight	Recommended Accuracy Class
BS-100	0.02g	100g	OIML M2
BS-250	0.2g	200g	OIML M2

IX. Adjustment

1. Press and hold the **M** key until the display shows "CAL".
2. Press the **M** key again. The display will flash "CAL" followed by the calibration weight value (see chart).
3. Place the calibration weight on the center of the weighing platform. Make sure you are using the correct weight for your specific model.
4. Once the weight is accepted, the display will show "PASS" then return to normal operation.

X. 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

XI. 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. **EEEE** - Maximum capacity exceeded. Remove the extra weight to avoid damaging the load cell.
3. **LLLL** - Load cell has been overloaded.
4. **UNST** - The scale is unstable. Use the scale in a more stable position

XII. Specifications

	BS-100	BS-250
Max. Capacity	100g	250g
Readability	0.01g	0.1g
Power	2 x AAA	
Dimensions	2.8 x 4.3 x 0.8 in.	
Platform Dimensions	1.8 x 2.6 in.	
Warranty	10 Year Limited Warranty	

BS-100	Capacity	Readability
Gram	100g	0.01g
Pennyweight	64.30dwt	0.01dwt
Carat	500ct	0.05ct
Grain	1543gn	0.2gn

BS-250	Capacity	Readability
Gram	250g	0.1g
Ounce	8.820oz	0.01oz
Troy Ounce	8.038ozt	0.01ozt
Pennyweight	160.8dwt	0.1dwt