American Weigh Scales
INNOVATIVE WEIGHS

AWS-Series User Manual



AWS-70 (70x0.01g)
AWS-100 (100x0.01g)
AWS-100-CAL (100x0.01g)
AWS-200-CAL (200x0.01g)
AWS-201 (200gx0.01g)
AWS-220 (220x0.01g)
AWS-250 (250x0.01g)
AWS-501 (500x0.1g)
AWS-600 (600x0.1g)
AWS-1KG (1000gx0.1g)
AWS-1200 (1200gx0.1g)
AWS-1200-GOLD (1200gx0.1g)

Copyright © 2026 American Weigh Scales, Inc.
All rights reserved. Rev. 8

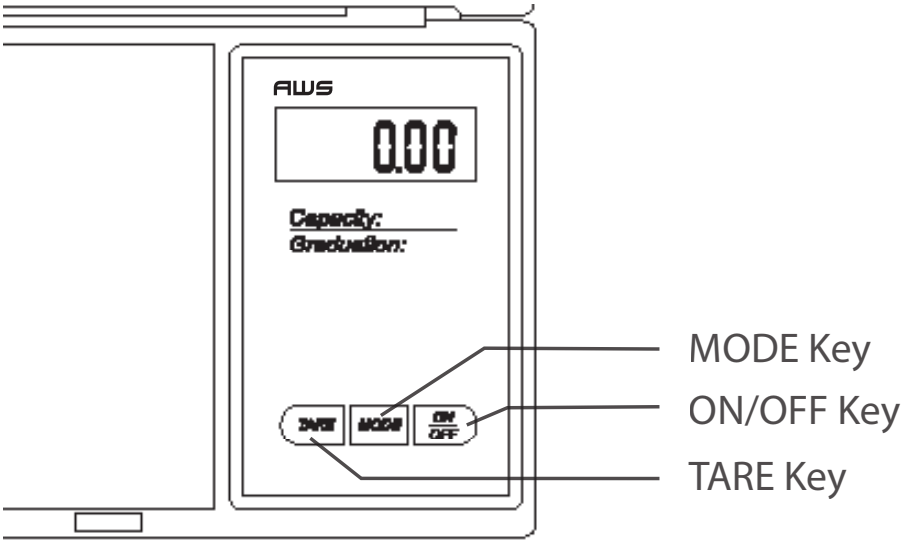
Thank you for purchasing an American Weigh scale. Please read all operating instructions carefully before use. Scales are precision measuring devices and should always be handled with proper care. To ensure years of reliable service, keep these simple tips in mind: Do not exceed the scale's maximum capacity. This scale has integrated overload protection, but any overload protection has its limits!

- Avoid exposure to extreme heat or cold. Scales perform best at normal room temperature. If temperatures have changed dramatically, recalibration may be necessary. Do not attempt without the proper calibration weight.
- 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 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.
- For best accuracy, calibration should be checked and adjusted occasionally as part of routine scale maintenance.

I. Part List

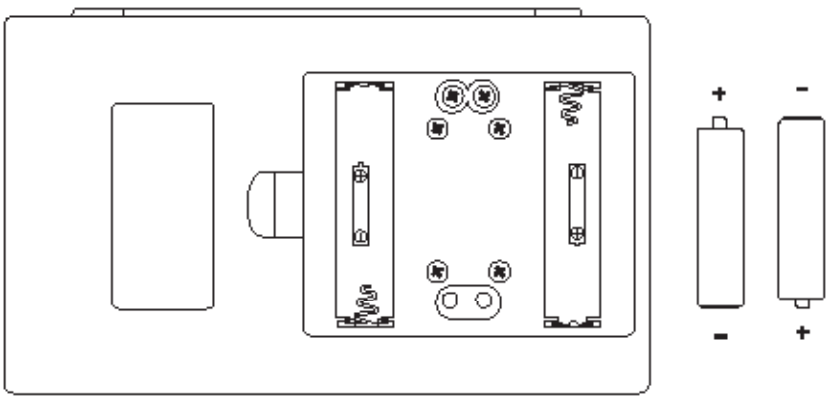
1. Scale
2. Cover/Expansion Tray
3. AAA Batteries (x2)

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 **ON/OFF** 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.
5. To turn the scale OFF, press and hold the ON/OFF key. The scale also has an auto-off feature and will automatically turn off after 90 seconds of non-use.

V. Changing the Unit of Measure

1. Press the **MODE** 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.

- **0.1g Version Units:** g (gram) ▶ oz (ounce) ▶ ozt (troy ounce) ▶ dwt (pennyweight)
- **0.01g Version Units:** g (gram) ▶ oz (ounce) ▶ ct (carat) ▶ gn (grain)

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 **TARE** 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 **TARE** key again to re-zero the scale.

VII. 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 (±)	Calibration Weight	Recommended Accuracy Class
AWS-70	0.02g	50g	OIML M2
AWS-100	0.02g	100g	OIML M2
AWS-100-CAL	0.02g	100g	OIML M2
AWS-200-CAL	0.02g	200g	OIML M2
AWS-201	0.02g	2 x 100g	OIML M2
AWS-220	0.02g	200g	OIML M2
AWS-250	0.02g	200g	OIML M2

AWS-501	0.2g	500g	OIML M2
AWS-600	0.2g	500g	OIML M2
AWS-1KG	0.2g	500g	OIML M2
AWS-1200	0.2g	500g	OIML M2
AWS-1200-GOLD	0.2g	500g	OIML M2

VIII. Adjustment

1. Turn the scale on by pressing the ON/OFF key.
2. Wait for the display to show “0.0g” or “0.00g” then press and hold the MODE key until the display shows “CAL”, then release.
3. Press the MODE key again. The display will flash “CAL” followed by the required calibration weight.
4. Place the required calibration weight on the center of the platform. The display will show “PASS” then return to normal weighing mode. Calibration is complete! You may now turn the scale off.

IX. 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

X. 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.

XI. Specifications

	AWS-70	AWS-100	AWS-100-CAL
Max. Capacity	70g	100g	200g
Readability	0.01g	0.01g	0.01g
	AWS-200-CAL	AWS-201	AWS-220
Max. Capacity	200g	201g	220g
Readability	0.01g	0.01g	0.01g
	AWS-250	AWS-501	AWS-600
Max. Capacity	250g	501g	600g
Readability	0.01g	0.1g	0.1g
	AWS-1KG	AWS-1200	AWS-1200-GOLD
Max. Capacity	1000g	1200g	1200g
Readability	0.1g	0.1g	0.1g

	Common Specifications
Power	Two (2) AAA Batteries
Dimensions	3.0 x 5.0 x 0.9 in.
Platform Dimensions	2.5 x 3.0 in.
Warranty	10 Year Limited Warranty

XII. Capacity/Readability Charts

AWS-70	AWS-100	AWS-100-CAL
70x0.01g 2.47x0.001oz 350x0.05ct 1080.2x0.2gn	100x0.01g 3.528x0.001oz 500.0x0.05ct 1543.2x0.2gn	100x0.01g 3.528x0.001oz 500.0x0.05ct 1543x2.2gn

AWS-200-CAL	AWS-201	AWS-220
200x0.01g 7.05x0.001oz 1000.0x0.05ct 3086.4x0.2gn	200x0.01g 7.05x0.001oz 1000.0x0.05ct 3086x0.2gn	200x0.01g 7.05x0.001oz 1100.0x0.05ct 3395.1x0.2gn

AWS-250	AWS-501	AWS-600
250x0.01g 8.81x0.001oz 1250.0x0.05ct 3858.0x0.2gn	500x0.1g 17.6x0.01oz 16.07x0.01ozt 321.5x0.1dwt	600x0.1g 21.16x0.01oz 19.29x0.01ozt 385.8x0.1dwt

AWS-1KG	AWS-1200	AWS-1200-GOLD
1000x0.1g 35.2x0.01oz 32.15x0.01ozt 643.1x0.1dwt	1200x0.1g 42.32x0.01oz 38.5x0.01ozt 771.6x0.1dwt	1200x0.1g 42.32x0.01oz 38.5x0.01ozt 771.6x0.1dwt

American Weigh Scales, Inc.

Cumming, GA 30041 U.S.A.
www.awscales.com

Made In China to our exact
specifications and quality control.