

NEWACALOX DH100G-2

NEWACALOX Milligram Scale 100 x 0.001g User Manual

Model: DH100G-2

INTRODUCTION

Thank you for choosing the NEWACALOX Milligram Scale. This high-precision digital scale is designed for accurate measurements up to 100g with 0.001g sensitivity. Please read this manual thoroughly before use to ensure proper operation and to maximize the lifespan of your device.

SAFETY INFORMATION

- Handle the scale with care. Avoid dropping or subjecting it to strong impacts.
- Do not overload the scale beyond its maximum capacity of 100g, as this may permanently damage the internal sensor.
- Keep the scale in a dry and clean environment. Avoid extreme temperatures and humidity.
- Do not use the scale near strong electromagnetic fields, which can affect accuracy.
- Ensure the scale is placed on a stable, vibration-free surface during operation.

PACKAGE CONTENTS

The package includes the following items:

- NEWACALOX Milligram Scale
- 100g Calibration Weight
- Tweezers
- Plastic Weighing Pan/Tray
- USB Power Cable
- 2 x AAA Batteries
- User Manual (this document)



Image: NEWACALOX Milligram Scale and its accessories.

PRODUCT OVERVIEW

Familiarize yourself with the main components of your NEWACALOX Milligram Scale:



Image: Labeled diagram of the NEWACALOX Milligram Scale.

- **On-off Key:** Powers the scale on or off.
- **M (Mode) Key:** Changes weighing units (G, MG, OZ, OZT, DWT, CT, GN, TL).
- **P (PCS) Key:** Activates the piece counting function.
- **T (Tare) Key:** Resets the display to zero, allowing you to weigh items in a container.
- **LED Screen:** Digital display for weight and function indicators.
- **Round Weighing Surface:** Where items are placed for weighing.
- **Windscreen:** Transparent cover to protect the weighing surface from air currents, improving accuracy.
- **USB Port:** For connecting to a USB power supply (not for recharging internal batteries).

POWER SUPPLY

Your scale offers two convenient power options:

- **AAA Batteries:** Insert 2 AAA batteries into the battery compartment located on the underside of the scale.
- **USB Power:** Connect the scale to a USB power source using the provided USB cable. Note that the USB connection provides power directly and does not recharge the AAA batteries.

2 Power Supply Modes



power by AAA



Anti-skid Base



USB Port



the charger can provide power for the scale **DIRECTLY** by connecting the USB port .

Image: Two power supply options: AAA batteries and USB.

SETUP AND CALIBRATION

Initial Setup

1. Place the scale on a hard, flat, and stable surface, away from vibrations or air currents.
2. Ensure the windscreen is properly installed.
3. Power on the scale using either AAA batteries or the USB cable.

Calibration

Calibration is essential for accurate measurements. Perform calibration regularly or if you suspect inaccuracies.

1. Turn the scale ON. Wait for the display to show "0.000g".
2. Press and hold the "M" (Mode) key until "CAL" appears on the display, then release.
3. Press the "M" key again. The display will flash the required calibration weight (e.g., "100.000g").
4. Gently place the provided 100g calibration weight onto the center of the weighing surface.
5. Wait for the display to show "PASS" and then return to "0.000g". This indicates successful calibration.
6. Remove the calibration weight. The scale is now ready for use.



Accurate Weight

Highly Sensitive

A feather can be weighed

Image: Calibration with the 100g weight.

Your browser does not support the video tag.

Video: This video demonstrates the calibration process and how to adjust the auto-off time for the scale.

OPERATING INSTRUCTIONS

Basic Weighing

1. Place the scale on a stable surface and turn it ON.
2. Wait for the display to show "0.000g".
3. Carefully place the item(s) to be weighed onto the center of the weighing surface.
4. Read the stable weight displayed on the screen.



Image: Examples of items being weighed on the scale, including powder, capsules, rice, and jewelry.

Unit Change

To change the weighing unit, press the "M" (Mode) key repeatedly to cycle through the available units: G (grams), MG (milligrams), OZ (ounces), OZT (troy ounces), DWT (pennyweights), CT (carats), GN (grains), and TL (taels).



Image: Changing weighing units using the 'M' button.

Tare Function

The Tare function allows you to subtract the weight of a container, so you only measure the net weight of its contents.

1. Place an empty container (e.g., the plastic weighing pan) on the weighing surface.
2. Press the "T" (Tare) key. The display will reset to "0.000g".
3. Add the items you wish to weigh into the container. The display will show only the weight of the items.
4. *Note:* Some users have reported inconsistencies with the TARE button. If you experience issues, ensure the scale displays "0.000" with nothing on it before placing your container.

Counting Function (PCS)

The PCS function allows you to count multiple small items of uniform weight.

1. Turn on the scale and wait for "0.000g".
2. Press and hold the "P" (PCS) button until "PCS" flashes on the display.
3. Press the "M" (Mode) button to select a sample quantity (e.g., 25, 50, 75, or 100 pieces).
4. Place the selected sample quantity (e.g., 25 pieces) of your item onto the weighing surface.
5. Press the "P" button once to confirm the sample. The display will show the sample quantity.
6. Remove the sample. Now, when you place any quantity of the same item on the scale, it will display the count.
7. *Attention:* For accurate counting, the items must have a consistent weight.



Image: Instructions for using the counting function.

Auto-Off Adjustment

You can adjust the automatic shut-off time to conserve battery life or keep the scale on for longer periods.

1. With the scale OFF, press and hold the "T" (Tare) key.
2. While holding "T", press the "On-off" key to turn the scale ON. Continue holding "T".
3. The display will show a number (e.g., "120"), indicating the current auto-off time in seconds.
4. Press the "M" (Mode) key to cycle through available auto-off times (e.g., 60, 120, 180 seconds, or "00" for no automatic shut-off).
5. Once you have selected your desired auto-off time, press the "T" key briefly to confirm. The display will show "PASS" and then return to normal weighing mode.

Your browser does not support the video tag.

Video: This video demonstrates how to adjust the auto-off time for the scale, including setting it to never shut off automatically.

MAINTENANCE

- **Cleaning:** Wipe the scale with a soft, damp cloth. Do not use abrasive cleaners or immerse the scale in water.
- **Storage:** Store the scale in a cool, dry place. If not used for extended periods, remove the batteries to prevent leakage.
- **Protection:** Always use the windscreen to protect the weighing mechanism from dust and air currents.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Scale does not turn on.	Low or dead batteries; incorrect battery installation; no USB power.	Replace batteries or ensure USB cable is properly connected to a working power source. Check battery polarity.
Inaccurate readings.	Not calibrated; unstable surface; air currents; overloaded scale; dirty weighing surface.	Perform calibration. Place on a stable, level surface. Use the windscreen. Do not exceed 100g. Clean the weighing surface.
"EEEE" or "O_LD" displayed.	Overload error.	Remove the item immediately. Do not exceed the maximum capacity of 100g.
Tare function not working as expected.	Inconsistent tare operation.	Ensure the scale displays "0.000g" before placing any container. If issues persist, try recalibrating.
Counting function (PCS) is inaccurate.	Items have inconsistent weight; incorrect sample quantity selected.	Ensure all items for counting have a uniform weight. Double-check the sample quantity during setup.

SPECIFICATIONS

Feature	Detail
Model	DH100G-2
Weight Capacity	100g
Accuracy	0.001g
Weighing Amount	>0.005g
Error Range	Within $\pm 0.005g$
Display Type	LED with Backlight

Feature	Detail
Weighing Units	G, MG, OZ, OZT, DWT, CT, GN, TL
Power Source	2 x AAA Batteries (included) or USB Power Supply
Special Features	Auto Shut Off, Calibration, Tare Function, Counting Function (PCS), Large Display, Precision Balanced, USB Power Supply, Windscreen
Material	Plastic
Item Weight	0.09 Kilograms

WARRANTY AND SUPPORT

For warranty information, technical support, or any questions regarding your NEWACALOX Milligram Scale, please refer to the contact information provided with your purchase or visit the official NEWACALOX website. Keep your purchase receipt as proof of purchase for warranty claims.