DANOPLUS KB0305

DANOPLUS Sound Level Calibrator KB0305 User Manual

Model: KB0305 | Brand: DANOPLUS

1. Introduction

The DANOPLUS Sound Level Calibrator KB0305 is designed to provide accurate and stable acoustic signals for calibrating sound level meters. It offers selectable calibration levels of 94dB, 104dB, and 114dB at a frequency of 1K Hz, ensuring precise measurements for various applications. This device is portable, durable, and suitable for field use.



Image 1.1: The DANOPLUS Sound Level Calibrator KB0305, demonstrating its compact design and connection to a sound level meter for calibration.

2. Product Features

- **Calibration Frequency:** 1K Hz with Sound Pressure Levels of 94dB, 104dB, and 114dB.
- **Operation:** Easy one-handed operation.
- **Display:** Vivid LED indicators for stability and low power.
- **Compatibility:** Fits all sound level meters with a 1/2" (13.2mm) microphone head compliant with IEC 61094-1 or IEC 61094-4.
- **Portability:** Lightweight and compact design for easy transport.
- **Function:** Generates a stable acoustic signal at a controlled frequency and amplitude to verify the accuracy of sound level meters.

3. Components and Controls

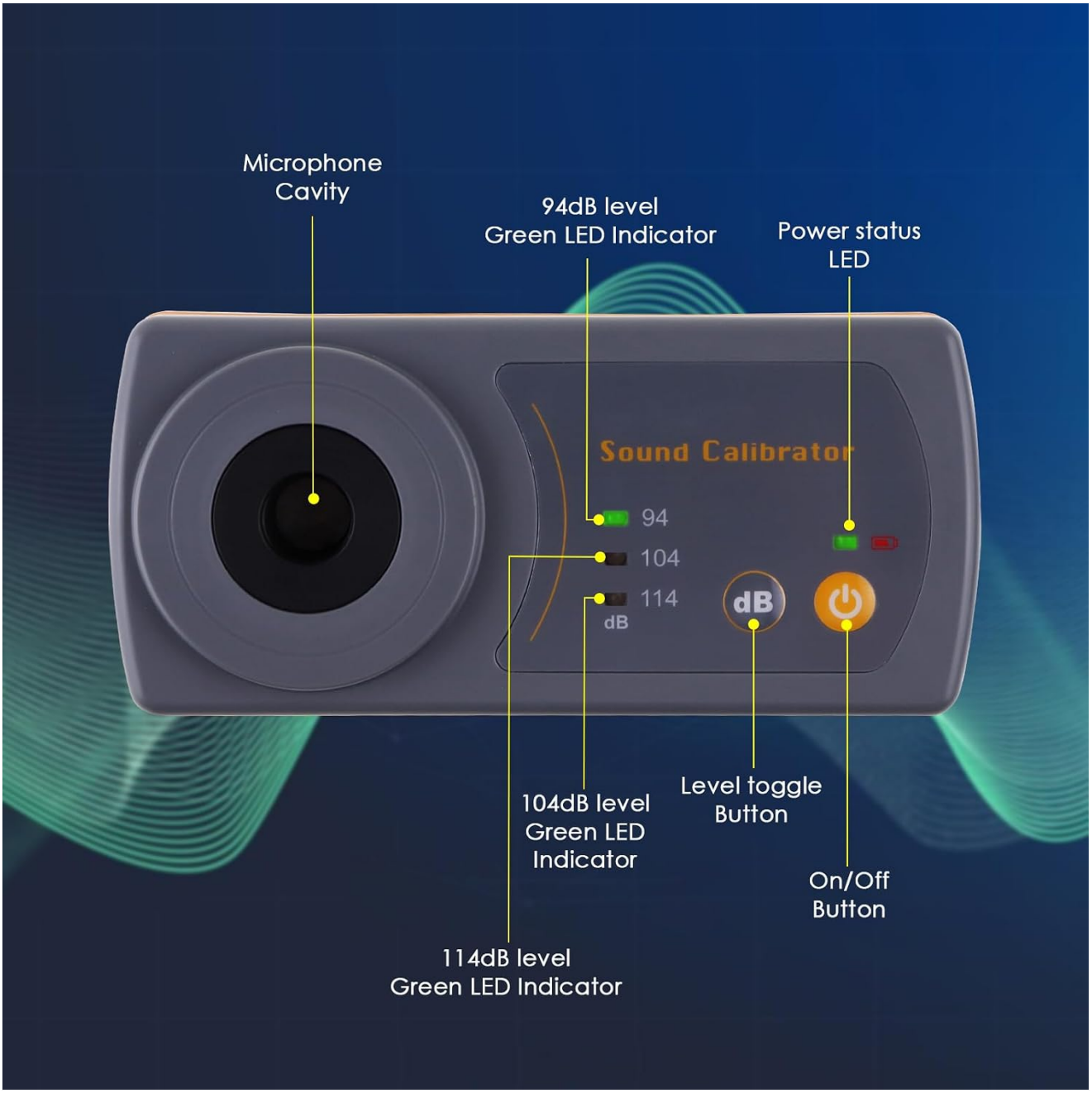


Image 3.1: Diagram illustrating the key components and controls of the DANOPLUS Sound Level Calibrator KB0305.

1. **Microphone Cavity:** Insert the sound level meter's microphone here. It has a 13.2mm diameter.
2. **94dB Level Green LED Indicator:** Illuminates when the 94dB calibration level is active.
3. **104dB Level Green LED Indicator:** Illuminates when the 104dB calibration level is active.
4. **114dB Level Green LED Indicator:** Illuminates when the 114dB calibration level is active.
5. **Power Status LED:** Green light indicates power is on; Red light indicates low battery.
6. **Level Toggle Button (dB):** Press to cycle through 94dB, 104dB, and 114dB calibration levels.
7. **On/Off Button:** Press to power the device on or off.



Image 3.2: Close-up view of the microphone cavity, showing its 13.2mm diameter for compatibility with standard sound level meters.

4. Setup

4.1. Battery Installation

The calibrator is powered by 2x AA batteries. To install or replace batteries:

1. Locate the battery compartment cover on the back of the device.
2. Slide the cover open.
3. Insert two AA batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.



Image 4.1: The rear view of the calibrator showing the battery compartment, highlighting its easy-to-carry design.

4.2. Connecting a Sound Level Meter

To prepare for calibration:

1. Ensure your sound level meter is powered off.
2. Gently insert the microphone of your sound level meter into the microphone cavity of the calibrator. Ensure a snug fit to prevent sound leakage.

5. Operating Instructions

5.1. Powering On and Off

Press the **On/Off Button** to power the calibrator on. The green Power Status LED will illuminate. To power off, press the **On/Off Button** again.

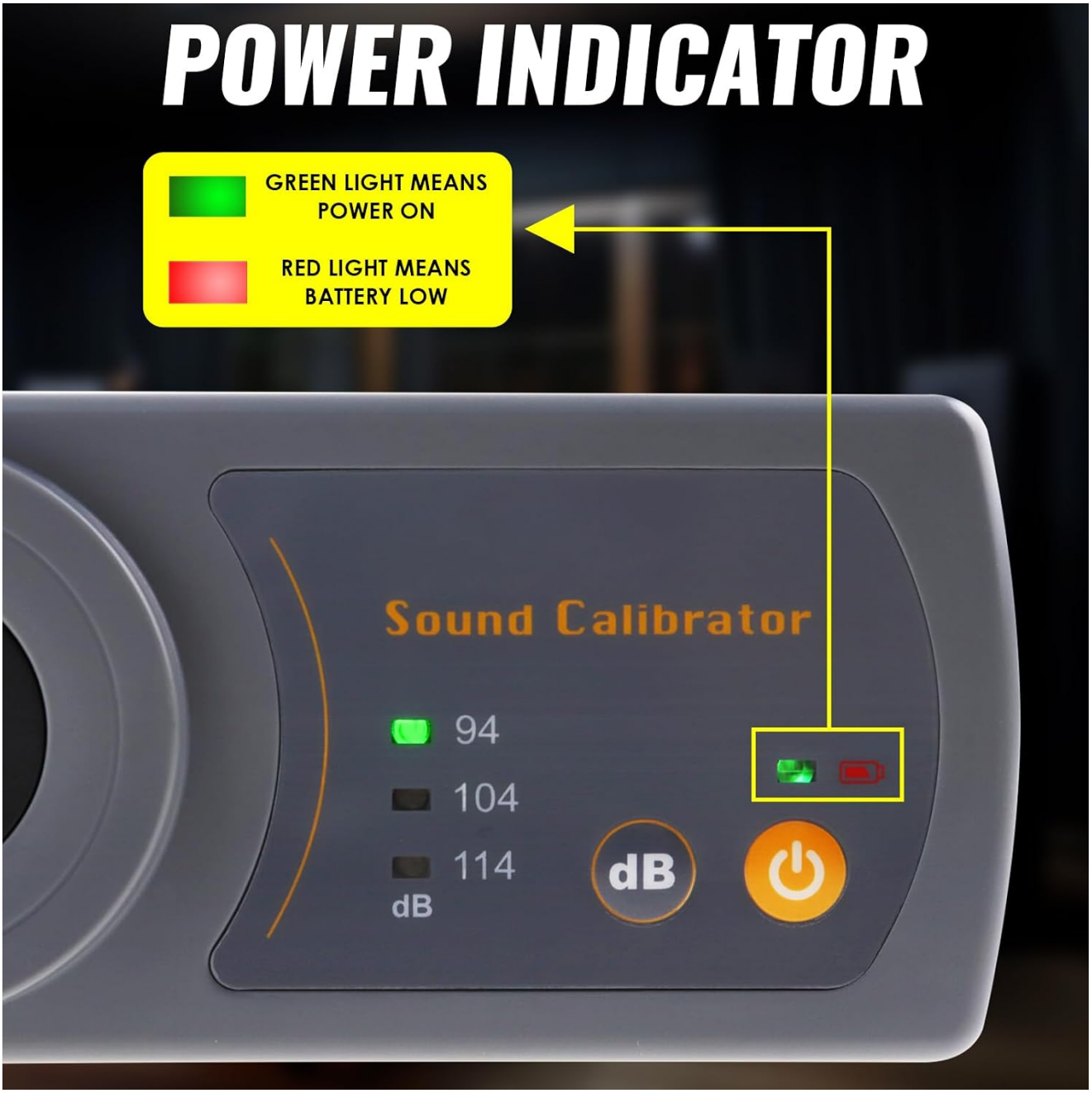


Image 5.1: The power indicator LEDs. Green indicates power on, red indicates low battery.

5.2. Selecting Calibration Level

After powering on, the calibrator will default to a specific dB level. To change the calibration level:

1. Press the **Level Toggle Button (dB)** for approximately 1 second.
2. The calibrator will cycle through the available levels: 94dB, 104dB, and 114dB.
3. The corresponding green LED indicator (94, 104, or 114) will illuminate to show the currently selected level.



Image 5.2: The sound pressure level LED indicators for 94dB, 104dB, and 114dB, showing the active level.

5.3. Calibration Procedure

Once the sound level meter's microphone is inserted and the desired calibration level is selected:

1. Power on your sound level meter.
2. Set your sound level meter to its calibration mode (refer to your sound level meter's manual for specific instructions).
3. Adjust your sound level meter until its reading matches the selected calibration level (e.g., 94.0 dB).
4. Once calibrated, power off the calibrator and remove the sound level meter.



Image 5.3: The calibrator in use, demonstrating the selection of 94dB, 104dB, or 114dB for precise calibration.

6. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the calibrator. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures. If storing for extended periods, remove the batteries to prevent leakage.
- **Battery Replacement:** Replace batteries when the Power Status LED turns red, indicating a low battery level.

7. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Device does not power on.	Dead or incorrectly installed batteries.	Check battery polarity. Replace with fresh AA batteries.
Power Status LED is red.	Low battery.	Replace with fresh AA batteries.
Inconsistent calibration readings on sound level meter.	Microphone not properly seated; environmental noise; faulty sound level meter.	Ensure microphone is snugly inserted. Perform calibration in a quiet environment. Check your sound level meter's functionality.
Cannot change calibration level.	Button not pressed long enough.	Press and hold the Level Toggle Button (dB) for approximately 1 second.

8. Specifications

Parameter	Value
Model Number	KB0305
Calibration Levels	94dB, 104dB, 114dB
Calibration Frequency	1K Hz
Microphone Cavity Diameter	1/2 inch (13.2mm)
Power Supply	2 x AA batteries
Item Weight	100 g
Package Dimensions	17 x 14 x 6 cm
Manufacturer	DANOPLUS
Country of Origin	USA

9. Package Contents

The DANOPLUS Sound Level Calibrator KB0305 package includes:

- 1 x Sound Level Calibrator
- 2 x AA batteries
- 1 x English Instruction Manual
- Standard Factory Packaging



Image 9.1: The complete set of the DANOPLUS Sound Level Calibrator, including the device, batteries, and manual.

10. Warranty and Support

For warranty information or technical support, please refer to the contact details provided with your purchase documentation or visit the official DANOPLUS website. Keep your purchase receipt for warranty claims.

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