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> [Garosa Formaldehyde Detector and Air Quality Monitor DM-101B User Manual](#)

Garosa DM-101B

Garosa Formaldehyde Detector and Air Quality Monitor

Model: DM-101B

1. INTRODUCTION

Thank you for choosing the Garosa DM-101B Formaldehyde Detector and Air Quality Monitor. This device is designed to accurately measure concentrations of formaldehyde (HCHO) and Total Volatile Organic Compounds (TVOC) in your environment. Its compact and portable design makes it suitable for use in various indoor settings, including homes, offices, bedrooms, and vehicles. Please read this manual thoroughly before operating the device to ensure proper usage and optimal performance.



Figure 1: Front view of the Garosa DM-101B Formaldehyde Detector, showing the LED display and control buttons.

2. SAFETY INFORMATION

- Keep the device away from water and high humidity to prevent damage.

- Do not attempt to disassemble or repair the device yourself. Refer to qualified personnel for service.
- Use only the specified battery type (2 x AA batteries) and ensure correct polarity during installation.
- Avoid exposing the device to extreme temperatures or direct sunlight for prolonged periods.
- This device is intended for informational purposes regarding air quality and should not be used as a substitute for professional air quality testing or medical advice.

3. PACKAGE CONTENTS

The package includes:

- 1 x Garosa DM-101B Formaldehyde Detector
- User Manual (this document)

Note: 2 x AA batteries are not included and must be purchased separately.

4. PRODUCT OVERVIEW

The Garosa DM-101B is a portable air quality monitor featuring an LED display for clear readings. It is designed to detect formaldehyde (HCHO) and Total Volatile Organic Compounds (TVOC) with high precision.

Key Features:

- **Compact and Portable:** Lightweight design for easy carrying and use in various locations.
- **Durable Construction:** Made from high-quality ABS casing material.
- **Dual Detection:** Accurately measures both Formaldehyde (HCHO) and Total Volatile Organic Compounds (TVOC).
- **Clear LED Display:** Provides easy-to-read digital values for HCHO and TVOC concentrations.
- **Versatile Application:** Suitable for monitoring air quality in offices, living rooms, bedrooms, and cars.

Device Components:



Figure 2: Detailed view of the device's display, control buttons, and battery compartment.

1. **LED Display:** Shows HCHO and TVOC concentration readings.
2. **Power Button ():** Used to turn the device ON/OFF.
3. **Mode Button (M):** Used to switch between display modes or functions (if applicable, refer to operating instructions).
4. **Battery Compartment:** Located on the back, holds 2 x AA batteries.

5. SETUP

5.1 Battery Installation

1. Locate the battery compartment cover on the back of the device.
2. Slide or gently pry open the battery compartment cover.
3. Insert 2 x AA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Close the battery compartment cover securely.



Figure 3: Back view of the device, illustrating the battery compartment location.

5.2 Initial Power On

After installing the batteries, press and hold the Power button () for a few seconds until the LED display illuminates. The device will typically perform a brief self-test before displaying readings.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

- **To Power On:** Press and hold the Power button () until the display turns on.
- **To Power Off:** Press and hold the Power button () until the display turns off.

6.2 Taking Readings

Once powered on, the device will automatically begin detecting HCHO and TVOC levels in the surrounding air. The readings will be displayed on the LED screen in real-time.



Figure 4: The detector displaying HCHO and TVOC readings in an indoor environment.

- **HCHO:** Displays the concentration of Formaldehyde in Mg/M^3 .
- **TVOC:** Displays the concentration of Total Volatile Organic Compounds in Mg/M^3 .

6.3 Understanding Readings

The device measures concentrations in milligrams per cubic meter (Mg/M^3). Refer to local air quality guidelines for recommended safe levels of HCHO and TVOC. Elevated readings may indicate poor air quality and suggest ventilation or other mitigation measures.



Figure 5: A user holding the detector to check air quality.

7. MAINTENANCE

7.1 Cleaning

Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents, as these can damage the casing or internal components.

7.2 Battery Replacement

When the battery indicator (if present) shows low power, or the display becomes dim, replace the AA batteries following the installation steps in Section 5.1.

7.3 Storage

Store the device in a cool, dry place within the specified storage temperature range (-10 °C to 45 °C). Remove batteries if storing for extended periods to prevent leakage.

8. TROUBLESHOOTING

- **Device does not power on:** Check if batteries are installed correctly and have sufficient charge. Replace with new batteries if necessary.
- **Inaccurate or fluctuating readings:** Ensure the device is used in a stable environment, away from strong air currents, direct heat sources, or chemical fumes that could interfere with sensors. Allow the device to stabilize for a few minutes after powering on.
- **Display is dim or unreadable:** Replace the batteries.

9. SPECIFICATIONS

Model	DM-101B
Test Items	Formaldehyde (HCHO), Total Volatile Organic Compounds (TVOC)
Display	LED Display
Power Supply	2 x AA Batteries (not included)
Concentration Unit	0.001 Mg/M ³
HCHO Detection Range	0.001 - 1.999 Mg/M ³
TVOC Detection Range	0.001 - 9.999 Mg/M ³
Working Voltage	2.4V - 3.0V
Operating Temperature	-10 °C to 50 °C
Storage Temperature	-10 °C to 45 °C
Dimensions (L x W x H)	Approx. 14.3 x 6.5 x 2 cm (5.6 x 2.6 x 0.8 inches)
Weight	Approx. 130g (4.6 oz)
Material	ABS Casing



Figure 6: Device dimensions.

10. WARRANTY AND SUPPORT

Garosa products are manufactured to high-quality standards. For warranty information, technical support, or service inquiries, please refer to the contact information provided with your purchase or visit the official Garosa website. Please retain your proof of purchase for warranty claims.

11. IMPORTANT NOTES

- Please allow for a 0-1 inch error due to manual measurement.
- Monitors may not be calibrated the same way; item color displayed in photos may be slightly different from the real object. Please take the real product as standard.