Gedsffati HD11

Gedsffati 5-in-1 Carbon Monoxide, Smoke, and Combustible Gas Detector User Manual

Model: HD11

Brand: Gedsffati

1. INTRODUCTION

The Gedsffati HD11 is a versatile 5-in-1 safety device designed to monitor your environment for multiple hazards. It integrates sensors for carbon monoxide (CO), smoke, combustible gases (such as natural gas, propane, methane, coal gas, gasoline, hexane, butane, benzene, ethylene oxide, acetylene, LPG, and LNG), temperature, and humidity. This device provides real-time detection and alerts to enhance safety in your home or while traveling.
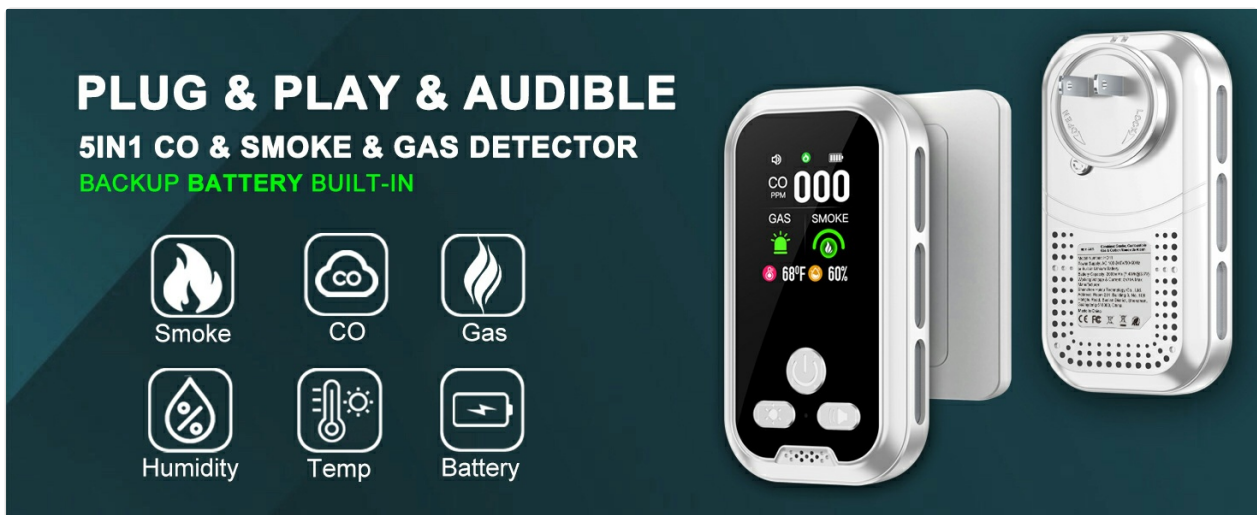

Image 1.1: The Gedsffati 5-in-1 detector highlighting its multi-sensor capabilities and plug-and-play design with backup battery.

2. KEY FEATURES

- **5-in-1 Detection:** Monitors Carbon Monoxide (CO), Smoke, Combustible Gases, Temperature, and Humidity simultaneously.

- **Plug-in & Play Design:** Compatible with 110V to 240V AC outlets, offering easy installation.
- **Built-in Backup Battery:** Features a 2000 mAh rechargeable lithium battery providing 18-20 hours of operation during power outages, making it suitable for travel.
- **2.1-inch HD Screen:** Displays real-time data dynamically, including CO ppm, smoke indication bar, combustible gas warning icon, humidity, temperature, CO indicator, plug status, and alarm status.
- **Audible and Visual Alarms:** Provides an 85 dB audible alarm and visual indicators for detected hazards.

3. SAFETY INFORMATION

Understanding the hazards associated with carbon monoxide, combustible gases, and smoke is crucial for your safety.
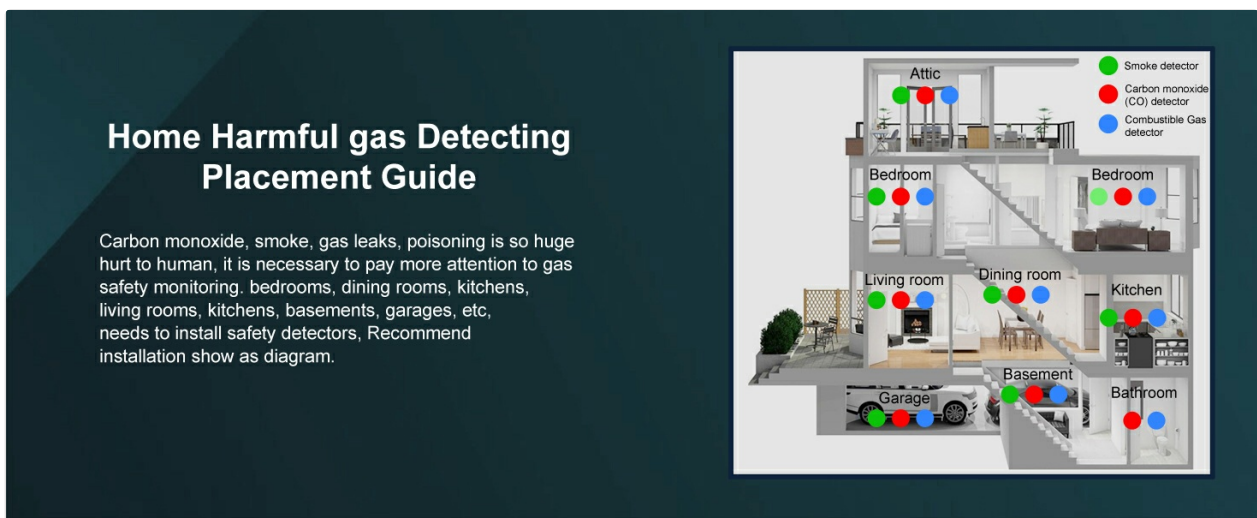

Image 3.1: Overview of the hazards associated with carbon monoxide, combustible gas, and smoke.

3.1 Carbon Monoxide Hazard

Carbon monoxide is a colorless, odorless, and toxic gas. Mild poisoning symptoms include headaches, dizziness, palpitations, nausea, vomiting, limb weakness, and brief fainting. Inhaling high concentrations can lead to coma, collapse, or death. It can harm the brain, heart, liver, kidneys, lungs, and other tissues.

3.2 Combustible Gas Hazard

Natural gas is a colorless, odorless, non-toxic, and non-corrosive gas. While methane itself is not harmful to humans, it can cause suffocation by displacing oxygen. Gas leaks can also emit toxic carbon monoxide, leading to dizziness, poisoning, or death. A concentration of 10% natural gas in the air poses a risk of suffocation and poisoning reactions.

3.3 Smoke Hazard

Thick smoke contains harmful particles such as carbon monoxide, sulfur dioxide, and nitrogen oxides. Inhaling smoke during a fire can irritate respiratory passages, causing coughing, chest tightness, and shortness of breath. Excessive smoke inhalation can lead to damage to the nervous and cardiovascular systems.

4. SETUP AND INSTALLATION

4.1 Initial Setup

The Gedsffati HD11 detector is designed for plug-and-play operation. Simply plug the device into a standard

110V to 240V AC outlet. The device will automatically begin monitoring once powered.

Combination carbon monoxide Combustible gas and smoke detector
Real time monitoring / smoke alarm

- High precision sensors
- High definition large screen
- Sound and light alarm

CO PPM 015
GAS SMOKE
68°F 60%

new generation

Image 4.1: The Gedsffati detector plugged into an AC outlet, ready for operation.

4.2 Placement Guide

Proper placement of the detector is essential for effective monitoring. Consider the following guidelines for optimal installation:

- Install detectors in bedrooms, living rooms, kitchens, basements, and garages.

- For CO detection, place at breathing height, typically near sleeping areas.

- For smoke detection, place on ceilings or high on walls, away from corners.

- For combustible gas detection, place near potential sources of gas leaks (e.g., gas stoves, water heaters).

- Avoid placing near windows, doors, or vents where air currents might dilute gas concentrations.

- Avoid placing in areas with high humidity or extreme temperatures.

Image 4.2: Recommended placement guide for harmful gas detectors in various rooms of a home.

5. OPERATION

5.1 Understanding the Display

The 2.1-inch HD screen provides clear, real-time information about your environment. Key indicators include:

- **CO PPM:** Carbon Monoxide concentration in parts per million.
- **GAS Icon:** Indicates combustible gas detection.
- **SMOKE Icon:** Indicates smoke detection.
- **Temperature:** Current ambient temperature.
- **Humidity:** Current ambient humidity level.
- **Battery Icon:** Shows battery charge level.
- **Buzzer Status:** Indicates if the alarm buzzer is active.
- **Plug Icon:** Indicates if the device is connected to AC power.

Image 5.1: Detailed view of the HD screen display and button functions.

5.2 Button Functions

- **Power Button (Large central button):**
    - Short press: Initiates self-testing.

- Long press: Turns off the device when operating on battery power.

- **Screen Brightness Button (Left button):**

    - Short press: Changes screen brightness level.

    - Long press: Switches temperature display between Celsius (°C) and Fahrenheit (°F).

- **Buzzer Button (Right button):**

    - Short press: Turns off the alarm buzzer.

5.3 Self-Test Function

It is recommended to test the detector regularly to ensure proper functionality.

1. **Button Test:** Short press the Power button to initiate a self-test. The device will perform a system check and sound the alarm briefly.

2. **Smoke Test:** To test the smoke sensor, approach the detector with smoke from an unburned paper or a cigarette. The CO value on the screen will change, and the alarm will sound 'di di di' when reaching the alarm value. *Note: Do not test with car exhaust or burning gas in open areas, as low CO values may not trigger the sensor.*

Carbon monoxide hazard

Carbon monoxide is a colorless, odorless, and toxic gas. When mildly poisoned, people may experience symptoms such as headaches, dizziness, palpitations, nausea, vomiting, limb weakness, and even brief fainting. In addition to worsening mild poisoning symptoms, moderate poisoning may also result in coma or collapse. Inhaling high concentrations of carbon monoxide can cause varying degrees of poisoning symptoms, endangering the brain, heart, liver, kidneys, lungs, and other tissues of the human body, and even leading to electrocution like death.

Combustible gas hazard

Natural gas is a colorless, odorless, non-toxic, and non corrosive gas. Methane poses no harm to the human body, but it has a suffocating effect.
1. When natural gas leaks, it emits toxic gas carbon monoxide, which can make people feel dizzy. Disgusting, in severe cases it can lead to poisoning and death.
2. When the concentration of natural gas leakage reaches 100%, there is a risk of suffocation for humans. If the concentration of natural gas in the air reaches 10%, people will experience poisoning reactions in this environment.

Smoke hazard

Thick smoke contains a large amount of harmful particles, such as carbon monoxide, sulfur dioxide, nitrogen oxides, etc. If smoke is inhaled during a fire, it can irritate the respiratory mucosa and cause symptoms such as coughing, chest tightness, and shortness of breath. Inhaling too much thick smoke may also cause damage to the nervous and cardiovascular systems.

Image 5.2: Instructions for testing the CO/Smoke/Gas detectors.

6. Alarms and Indicators

The detector uses both audible and visual cues to alert you to potential dangers.

- **Green Light Indicator:** When the screen is off and the indicator light is green, it signifies normal operation and continuous monitoring of smoke, combustible gas, and CO concentrations.

- **Red Light Indicator** / **Alarm:** A red light and an audible alarm indicate a detected hazard (smoke, CO, or combustible gas) or a sensor malfunction. The alarm sound level is typically over 85 dB.

Image 6.1: The detector's alarm sound level, which can exceed 100 dB.

7. Maintenance

7.1 Battery Information

The device includes a built-in 2000 mAh rechargeable lithium-ion battery. This battery provides approximately 18-20 hours of operation during power outages, ensuring continuous protection. The rechargeable design eliminates the need for frequent battery replacements, saving costs.

Image 7.1: The detector's 2000mAh high-capacity battery for extended operation.

7.2 Cleaning

To maintain optimal performance, regularly clean the exterior of the detector with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners. Ensure that the sensor openings are free from dust and debris.

8. TROUBLESHOOTING

If the detector is not functioning as expected, consider the following:

- **No Display/Power:** Ensure the device is securely plugged into a working AC outlet. If operating on battery, check the battery level.
- **False Alarms:** Ensure the detector is not placed near sources of steam, cooking fumes, or excessive dust. Relocate if necessary.
- **Alarm Sounds Continuously:** If an alarm sounds and there is no apparent hazard, ventilate the area

and perform a self-test. If the alarm persists, contact customer support.

- **Red Light Indicator (Malfunction):** If the red light indicates a malfunction, perform a self-test. If the issue is not resolved, the sensor may require service or replacement.

9. SPECIFICATIONS

Feature	Detail
Brand	Gedsffati
Model Number	HD11
Detection Types	Carbon Monoxide (CO), Smoke, Combustible Gas, Temperature, Humidity
Power Source	AC (110V-240V) with Built-in Rechargeable Lithium Ion Battery
Battery Capacity	2000 mAh
Battery Life (Backup)	18-20 hours
Display	2.1-inch HD Screen
Alarm Volume	85 dB (at 1 meter)
Product Dimensions	2.7 x 1.1 x 4.6 inches
Item Weight	6.4 ounces
UPC	758321266994

10. WHAT'S IN THE BOX

Your Gedsffati HD11 package includes:

- Gedsffati 5-in-1 CO, Smoke, & Gas Detector
- User Manual