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› Gedsffati HD11-CG Gas and CO Detector User Manual

Gedsffati HD11-CG

Gedsffati HD11-CG Gas and CO Detector User Manual

Model: HD11-CG | Brand: Gedsffati

1. INTRODUCTION

The Gedsffati HD11-CG is a combined gas and carbon monoxide (CO) detector designed for home use. This device continuously monitors levels of carbon monoxide and combustible gases such as natural gas, LPG, methane (CH₄), ethane (C₂H₆), propane (C₃H₈), and butane (C₄H₁₀). It features a plug-in design with a built-in rechargeable lithium battery for emergency backup power, ensuring continuous operation even during power outages.

Equipped with high-performance sensors, the HD11-CG provides accurate and rapid detection, with sensors operating every 2 seconds. It also includes integrated temperature and humidity sensors, displaying real-time measurements on its HD color screen. Upon detecting hazardous gas concentrations (e.g., CO over 50 ppm), the device emits a loud audible alarm and visual alerts.



Image: Gedsffati HD11-CG Gas and CO Detector, front and back view with plug adapter.

2. SAFETY INFORMATION

It is crucial to understand the hazards associated with carbon monoxide and combustible gases to ensure proper use and placement of the detector.

2.1 Carbon Monoxide Hazard

Carbon monoxide is a colorless, odorless, and toxic gas. Even 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.

2.2 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 is 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.

2.3 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.

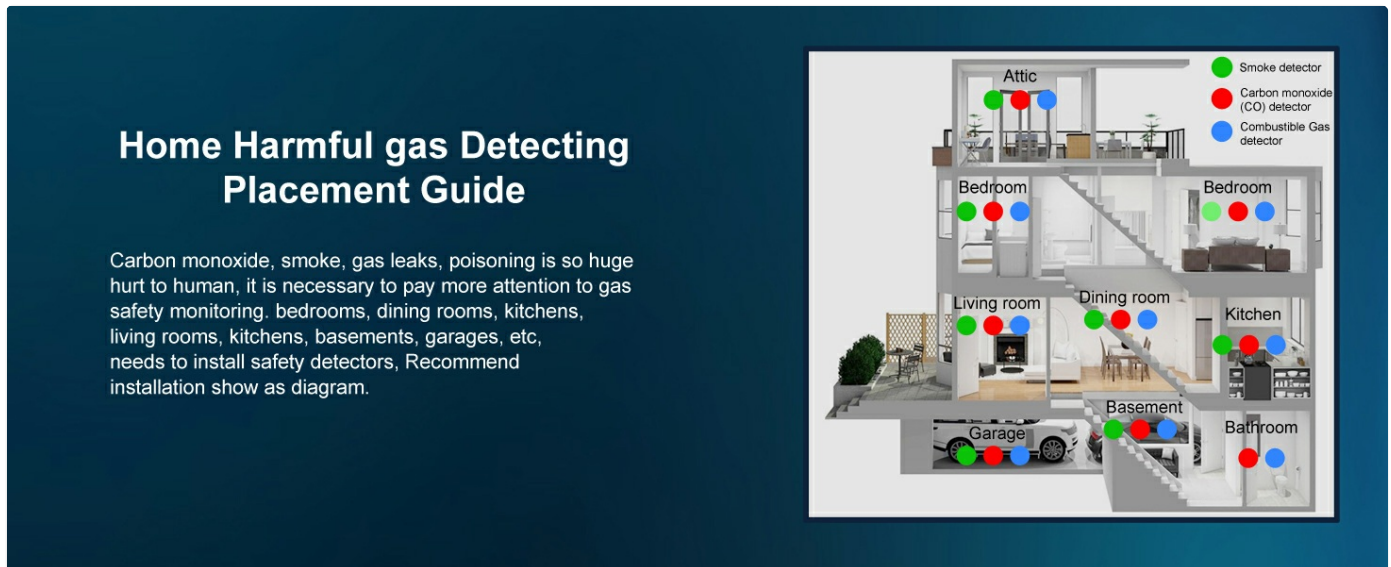


Image: Illustration of carbon monoxide and combustible gas hazards.

3. SETUP AND INSTALLATION

The Gedsffati HD11-CG detector is designed for easy plug-and-play installation.

3.1 Initial Setup

1. **Plug In:** Insert the detector directly into a standard wall outlet. The device will power on automatically.
2. **Self-Test:** Upon initial power-on, the device will perform a self-test. You can also manually initiate a self-test by short pressing the power button. A green light indicates normal operation.
3. **Battery Charging:** The built-in 2000mAh lithium battery will begin charging when the device is plugged in. This battery provides approximately 18-20 hours of backup power in case of a power outage.

BUILT-IN BACKUP BATTERY

20h battery-power life

Emergency detecting when power outage

Rechargeable for saving battery exchange fee

Portable for travel / Hotel / camping / RV



Image: The detector plugged into a wall outlet, showing its display and features.

3.2 Recommended Placement

Proper placement is vital for effective detection of carbon monoxide, smoke, and gas leaks. Refer to the diagram below for recommended installation locations:

- **Living Room:** Near common areas where gas appliances might be present.
- **Kitchen:** Essential for detecting combustible gas leaks from stoves or ovens.
- **Bedroom:** For CO detection, especially if heating appliances are nearby.
- **Hotel/RV Travel:** Portable design allows for use in temporary living spaces.
- **Garage:** Important for detecting carbon monoxide from vehicle exhaust.
- **Basement:** Where furnaces, water heaters, or other gas appliances are often located.



Image: Diagram illustrating recommended placement of CO, gas, and smoke detectors in a multi-story home.

4. OPERATING INSTRUCTIONS

The HD11-CG detector features a user-friendly interface with a clear display and intuitive controls.

4.1 Display and Indicators

2.1" HD SCREEN DISPLAY



All data displays in real-time and dynamically on the color HD screen.



3 levels brightness adjustment

Friendly for **sleeping**

Image: Detailed view of the detector's display and button functions.

- **CO PPM:** Displays the concentration of carbon monoxide in parts per million.
- **GAS Icon:** Indicates the presence of combustible gas.
- **Battery Level:** Shows the current battery charge.
- **Humidity:** Displays the current air humidity percentage.
- **Temperature:** Shows the current temperature in Fahrenheit or Celsius.
- **Indicator Light:** Located at the bottom, provides visual status (green for normal, red for alarm).

4.2 Button Functions

- **Power Button (Center):**
 - Short press: Initiates a self-test.
 - Long press: Turns off the device when operating on battery power. (Cannot be long-pressed when plugged in).
- **Screen Brightness Button (Left):**

- Short press: Cycles through 3 levels of screen brightness.
- Long press: Switches temperature display between Celsius (°C) and Fahrenheit (°F).

- **Buzzer Button (Right):**

- Short press: Turns the alarm buzzer on or off.



Image: The detector displaying an alarm state with flashing gas icon and CO PPM reading.

4.3 Alarm System

The device provides both audible and visual alerts when hazardous conditions are detected:

- **Audible Alarm:** A loud 85 dB sound.
- **Visual Alarm:** The gas icon flashes, CO data changes alert, and the indicator light flashes red.
- **CO Alarm Threshold:** An alarm is triggered when CO concentration exceeds 50 ppm.
- **Gas Alarm Threshold:** An alarm is triggered when combustible gas concentration reaches a dangerous level.

Your browser does not support the video tag.

Video: Demonstration of the HD11-CG carbon monoxide and gas detector in operation, showing real-time monitoring and alarm activation.

Your browser does not support the video tag.

Video: Overview of the HD11-CG combined carbon monoxide and gas detector, highlighting its features and functionality.

5. MAINTENANCE

Regular maintenance ensures the optimal performance and longevity of your Gedsffati HD11-CG detector.

- **Self-Test:** Perform a self-test regularly (e.g., weekly or monthly) by short pressing the power button to confirm the device is functioning correctly.
- **Cleaning:** Gently wipe the exterior of the detector with a soft, dry cloth. Do not use harsh chemicals, abrasives, or wet cloths, as this can damage the sensors or electronic components.
- **Sensor Lifespan:** The sensors in this device have a long lifespan of approximately 5 years. After this period, consider replacing the unit to ensure continued accuracy and safety.
- **Battery Care:** The built-in rechargeable lithium battery is designed for long-term use. Keep the device plugged in when possible to maintain a full charge for emergency backup.

5.1 Testing the Detector

To test the CO & Gas detectors before use:

1. **Method A:** Short click the power button to start a self-test.
2. **Method B (CO only):** Use a smoky cigarette to approach the detector.

NOTE: Carbon monoxide is a colorless, odorless, and non-toxic gas that is harmful to the human body. Before use our CO detector, we can take this detector to approach the smoke generated by unburned paper or cigarettes, the CO value will change, and the alarm will sound "di di di di" when reaching the alarm value. Please do not test it by car exhaust and burning gas in open areas, as too low CO values will not trigger sensor operation.



Image: Instructions on how to test the detector using the self-test button or cigarette smoke for CO.

6. TROUBLESHOOTING

If your Gedsffati HD11-CG detector is not functioning as expected, refer to the following common issues and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Red Indicator Light / "ERR" on screen	Mute error or sensor malfunction. Problem with the module.	<ul style="list-style-type: none"> • Perform a self-test by short pressing the power button. • If the error persists, unplug the device and plug it back in. • If the "ERR" message appears and the buzzer is forcibly turned on (10 times within 30 seconds), the module may have a problem. Contact customer support if the issue continues.
No display / Device not turning on	No power from outlet or battery is depleted.	<ul style="list-style-type: none"> • Ensure the outlet has power. • Allow the device to charge for several hours if operating on battery. • Check if the plug adapter is securely connected to the device and the wall.
Alarm sounds frequently without apparent gas/CO	False alarm due to high sensitivity or environmental factors.	<ul style="list-style-type: none"> • Ensure proper ventilation in the area. • Avoid placing the detector near sources of steam, strong odors, or direct drafts. • The device has adaptive adjustment sensitivity to avoid false alarms, but extreme conditions can still trigger it.



Image: The detector showing green light for normal operation and red light for alarm/error.

7. SPECIFICATIONS

Feature	Detail
Model Number	HD11
Product Dimensions	11.8 x 6.5 x 2.6 cm
Item Weight	150 Grams
Color	White (Co+gas)

Feature	Detail
Material	ABS
Power Source	AC (Alternating Current)
Voltage	9 Volts (DC)
Battery Type	Lithium-Polymer (2000 mAh)
Battery Life (Backup)	Approx. 18-20 hours after full charge
Sensor Lifespan	Approx. 5 years
Alarm Sound Level	85 dB
CO Detection Principle	Electrochemical reaction
Gas Detection Principle	Electrical resistance change of semiconductors
Data Refresh Rate	Every 2 seconds
Manufacturer	Shenzhen Huidu Technology Co., Ltd.
UPC	747086493141

8. WARRANTY AND SUPPORT

Specific warranty information is not provided in the product details. For warranty claims, technical support, or further inquiries, please contact Gedsffati customer service through your point of purchase or the official Gedsffati website.

