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> Firlarm Gas and Carbon Monoxide Detector (Model YC-810) User Manual

## Firlarm YC-810

# Firlarm Gas and Carbon Monoxide Detector (Model YC-810) User Manual

Model: YC-810 | Brand: Firlarm

## INTRODUCTION

This manual provides essential instructions for the safe and effective use of your Firlarm Gas and Carbon Monoxide Detector, Model YC-810. This device is designed to monitor for both combustible gas leaks and carbon monoxide presence in your home, kitchen, or garage, providing visual and audible alerts to help ensure your safety.



Image: Front view of the Firlarm Gas and Carbon Monoxide Detector, showing the LED display, power, test, and fault indicators, and the Firlarm logo.

## SAFETY INFORMATION

Please read all safety instructions carefully before installation and operation. Failure to follow these instructions may result in product malfunction, property damage, or serious injury.

- This detector is designed for residential use. It is not intended for industrial applications.
- Do not paint the detector. Paint can clog the sensor openings and prevent the unit from functioning properly.
- Do not block the ventilation openings of the detector.
- Regularly test the detector as described in the "Operating Instructions" section.
- In case of an alarm, immediately ventilate the area and investigate the source of the gas or carbon monoxide. If the alarm persists, evacuate the premises and contact emergency services.

## PRODUCT FEATURES

- **2-in-1 Detection:** Equipped with advanced sensors for fast and precise detection of both combustible gas (0-9% LEL) and carbon monoxide (0-999 ppm).
- **LED Display:** Real-time concentration levels are clearly displayed on an easy-to-read LED screen.
- **Visual & Sound Alarm:** Triggers flashing red light and an 85dB alarm when critical thresholds are reached.
- **Easy Installation:** Plug-and-play design, compatible with 110V-220V AC power supply.
- **Energy Efficient:** Low power consumption of only 2W.
- **Durable Housing:** Fireproof smooth PC housing resists dirt and grease accumulation.



Image: Diagram illustrating the dual sensitive sensors within the detector, capable of detecting Carbon Monoxide, Natural Gas, Methane, and Propane.

## SETUP AND INSTALLATION

1. **Unpack:** Carefully remove the detector from its packaging.
2. **Choose Location:** Select a suitable location for installation. For gas detection, install near potential leak sources (e.g., gas stoves, water heaters) but not directly above them. For CO detection, install in living areas and bedrooms. Avoid placing near windows, doors, or ventilation fans that could interfere with readings.
3. **Plug In:** The detector features a plug-and-play design. Simply plug the unit into a standard 110V-220V AC power outlet.
4. **Preheating:** Upon connecting to power, the detector will enter a preheating phase for approximately 120 seconds. During this time, the LED display may show a countdown or other indicators.
5. **Ready for Use:** Once the preheating phase is complete, the detector is ready for operation.



Image: The Firlarm detector plugged into a wall outlet, illustrating its easy installation in a home environment.

## OPERATING INSTRUCTIONS

### Normal Operation

During normal operation, the detector continuously monitors the air for gas and carbon monoxide. The LED display will show "0" or a low concentration reading if no significant levels are detected. The green "Power" indicator light will remain steady.

## Testing the Detector

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

1. Ensure the detector has completed its 120-second preheating phase.
2. Press and hold the "Test" button located on the front of the device.
3. Observe the following:
  - The screen should reset to zero.
  - The yellow "Fault" light should remain firm.
  - The red "Alarm" indicator light should flash.
  - The buzzer should produce a continuous sound (85dB).
4. Release the "Test" button. The detector should return to normal monitoring mode.

# Test Button

## Easy Operation



Alarm Indicator Light

Clear LED Display

Fault Indicator Light

Test Button

Power Indicator Light

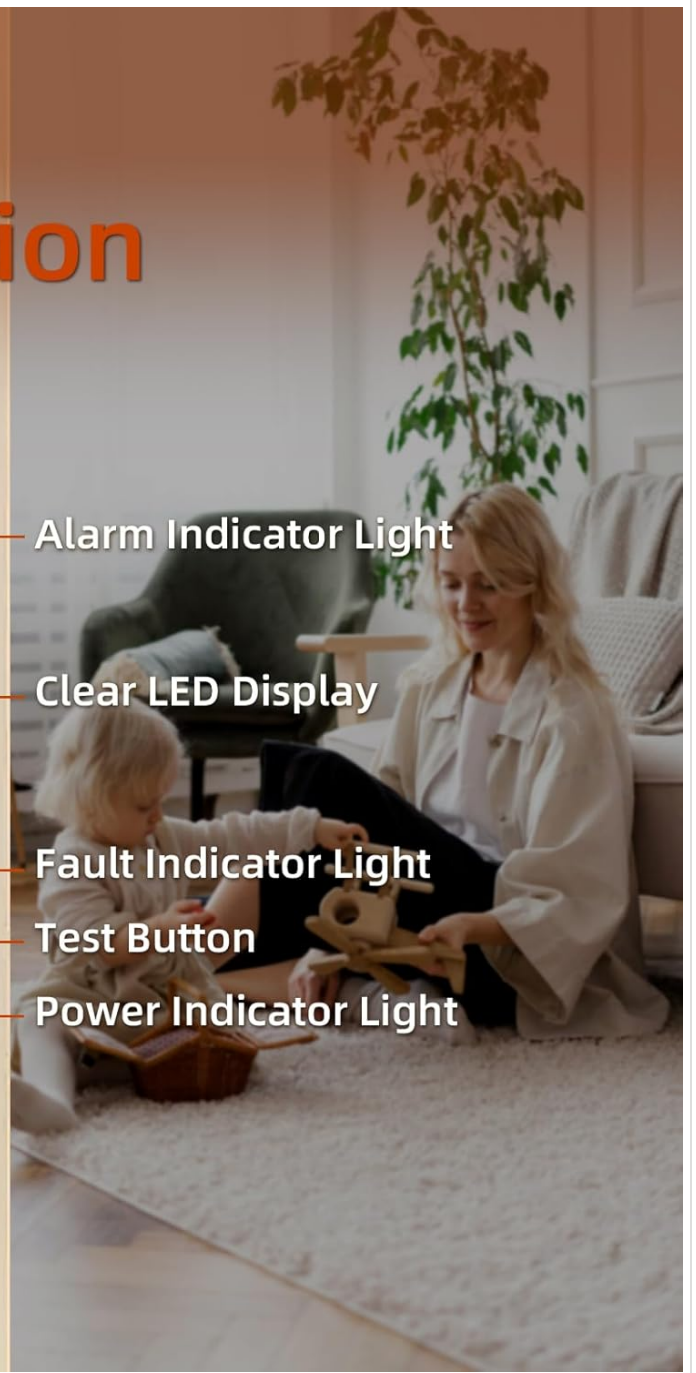


Image: Close-up view of the Firlarm detector highlighting the Alarm Indicator Light, Clear LED Display, Fault Indicator Light, Test Button, and Power Indicator Light.

### Alarm Conditions

The detector will trigger an alarm under the following conditions:

- **Gas Leak Alarm:** When combustible gas concentrations reach critical thresholds, the display will show "AAA", the red alarm light will flash, and the 85dB buzzer will sound.
- **Carbon Monoxide (CO) Alarm:** When CO concentrations reach or exceed 150 ppm, the display will show the CO level, the red alarm light will flash, and the 85dB buzzer will sound.

# Sound & Light Alarm

> 85 dB



Image: The Firlarm detector alarming with flashing red lights and an audible alert, indicating a potential hazard, shown in a room with a fireplace.

## MAINTENANCE

- **Cleaning:** Wipe the detector's smooth PC housing with a soft, damp cloth periodically to remove dust, dirt, and grease. Do not use harsh chemicals or abrasive cleaners. Ensure the ventilation openings are clear.
- **Avoid Obstruction:** Ensure that nothing obstructs the sensor openings or the alarm speaker.
- **Regular Testing:** Perform the test procedure described above at least once a month to confirm proper operation.
- **Power Supply:** Ensure the detector remains continuously plugged into a functional power outlet.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Detector does not power on.	No power from outlet; faulty outlet.	Check if the outlet is working by plugging in another device. Try a different outlet.
Alarm sounds (Gas "AAA" or CO " $\geq 150$ ppm").	Presence of combustible gas or carbon monoxide.	Immediately ventilate the area. Turn off gas appliances. Evacuate if necessary and contact emergency services. Do not re-enter until the area is deemed safe.
Detector fails the test procedure.	Sensor malfunction; internal fault.	Ensure the preheating phase is complete. If the test still fails, the unit may be faulty and should be replaced.
Yellow "Fault" light is on during normal operation.	Internal fault or sensor issue.	Unplug the detector for 30 seconds and plug it back in. If the fault light persists, the unit may require replacement.

## SPECIFICATIONS

**Model Number:** YC-810

**Brand:** Firlarm

**Power Supply:** 110V-220V AC

**Power Consumption:** 2W

**Alarm Volume:** 85dB

**Gas Detection Range:** 0-9% LEL (Lower Explosive Limit)

**Carbon Monoxide Detection Range:** 0-999 ppm

**Product Dimensions:** 10 x 10 x 10 cm

**Item Weight:** 136 g

**Housing Material:** Fireproof PC

**Certifications:** Double certified according to EN50194 and EN50291

**Country of Origin:** China

## WARRANTY AND SUPPORT

Specific warranty information for the Firlarm Gas and Carbon Monoxide Detector (Model YC-810) is not provided in the product details. Please refer to your purchase documentation or contact the retailer/manufacturer directly for warranty terms and customer support inquiries.

For technical assistance or further questions, please contact Firlarm customer service through their official channels.