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KOABBIT KH156

KOABBIT KH156 4-in-1 Plug-in Gas and Carbon Monoxide Detector User Manual

Model: KH156

1. Important Safety Information

Please read this manual thoroughly before installation and operation. Failure to follow these instructions may result in product malfunction, property damage, or personal injury. Keep this manual for future reference.

- This device is designed to detect natural gas (methane), propane, and carbon monoxide. It is not intended to detect smoke or fire.
- Do not paint the detector. Paint can clog the sensor openings and interfere with the unit's ability to detect gases.
- Do not block the ventilation openings on the device.
- Regularly test the detector as instructed in this manual to ensure proper function.
- In case of an alarm, evacuate the premises immediately and contact emergency services.
- This detector is for indoor use only. Do not expose it to direct sunlight, rain, or extreme temperatures.

2. Product Overview

The KOABBIT KH156 is a 4-in-1 plug-in detector designed to monitor natural gas, carbon monoxide, temperature, and humidity in real-time. It features a high-definition digital display and an audible alarm with flashing lights to alert users to potential hazards.



Figure 2.1: KOABBIT KH156 Detector (Front View)

Key Features:

- **4-in-1 Sensor:** Detects natural gas, carbon monoxide, temperature, and humidity.
- **Real-time Digital Display:** Shows current levels of CO (PPM), combustible gas (%LEL), temperature (°F), and humidity (RH%).
- **Audible and Visual Alarm:** Emits an 85dB alarm and flashing lights when gas or CO levels exceed preset thresholds.
- **Plug and Play Design:** Easy installation by plugging directly into a standard electrical outlet.
- **Rotatable Plug:** Allows for flexible orientation in various outlets.

3. Setup

3.1 Unpacking

Carefully remove the detector from its packaging. Inspect the device for any signs of damage. If the unit appears damaged, do not use it and contact customer support.

3.2 Placement

Proper placement is crucial for effective detection. Consider the following guidelines:

- Install the detector in areas where gas leaks or carbon monoxide accumulation are most likely, such as kitchens, utility rooms, near gas appliances (furnaces, water heaters), or sleeping areas.
- For natural gas (lighter than air), install the detector within 12 inches (30 cm) below the ceiling.
- For propane (heavier than air), install the detector within 12 inches (30 cm) above the floor.
- For carbon monoxide, install at knee height or higher, but not directly on the ceiling.
- Avoid installing near windows, doors, exhaust fans, or areas with high airflow that could dilute gas concentrations.
- Do not install in direct sunlight, behind curtains, or in areas with high humidity (e.g., bathrooms).



Figure 3.1: Detector plugged into a wall outlet

3.3 Powering On

Plug the detector directly into a standard 120V AC electrical outlet. The device will perform a self-test, indicated by flashing lights and an audible prompt. Once the self-test is complete, the digital display will show real-time readings for temperature, humidity, and gas levels (0 PPM for CO, 0% LEL for combustible gas under normal conditions).

4. Operating Instructions

4.1 Display Information

The digital display provides continuous monitoring of environmental conditions:



Figure 4.1: Detector Display Details

- **Temperature (°F):** Displays the ambient temperature.
- **CO (PPM):** Shows carbon monoxide concentration in parts per million.
- **GAS (%LEL):** Indicates combustible gas concentration as a percentage of the Lower Explosive Limit.
- **RH (%):** Displays relative humidity.

4.2 Alarm Indications

When detected gas or CO levels reach dangerous thresholds, the detector will activate its alarm system:

- **Audible Alarm:** An 85dB siren will sound.
- **Visual Alarm:** Red LED lights around the device will flash.
- **Digital Display:** The display will show the detected gas concentration.

In case of an alarm, follow these steps:

1. Open windows and doors to ventilate the area.
2. Turn off all gas appliances.
3. Evacuate the building immediately.
4. Contact your gas supplier or emergency services from a safe location.
5. Do not re-enter the premises until the alarm has ceased and the area has been deemed safe by professionals.

4.3 Testing the Detector

It is recommended to test the detector weekly to ensure its alarm function is operational. Press and hold the 'Test/Reset' button on the device. The alarm should sound, and the lights should flash. Release the button to stop the test.

▶ **Watch video online**
not too loud which is good

Video 4.1: Demonstration of the KOABBIT KH156 detector's alarm sound and flashing lights during a test.

5. Maintenance

Proper maintenance ensures the longevity and accuracy of your detector.

- **Cleaning:** Gently wipe the exterior of the detector with a soft, damp cloth. Do not use cleaning agents, solvents, or abrasive materials. Ensure no liquid enters the device.
- **Avoid Obstructions:** Ensure the sensor openings are free from dust, dirt, or other obstructions.
- **Regular Testing:** Perform weekly tests as described in Section 4.3.
- **Sensor Lifespan:** Gas and CO sensors have a limited lifespan. The device is designed for long-term use, but it is recommended to replace the unit after 5-7 years for optimal performance and safety.

6. Troubleshooting

If you encounter issues with your detector, refer to the following table:

Problem	Possible Cause	Solution
Detector does not power on.	No power from outlet; faulty outlet.	Check the power outlet with another device. Try a different outlet.
Alarm sounds frequently without apparent gas leak.	False alarm due to strong odors (e.g., cleaning products, aerosols); high humidity; sensor contamination.	Ventilate the area. Relocate the detector away from sources of strong odors or high humidity. Clean the detector as per maintenance instructions.
Display is blank or shows error code.	Power interruption; internal fault.	Unplug and re-plug the device. If the issue persists, contact customer support.
Test button does not activate alarm.	Internal fault; button malfunction.	Ensure the device is powered on. If the issue persists, contact customer support.

7. Specifications

Feature	Detail
Brand	KOABBIT
Model Number	KH156
Power Source	Plug-in (120V AC)
Product Dimensions	0.05"D x 0.08"W x 0.06"H
Item Weight	1.6 ounces
Alarm Type	Flash and Audible Alarm (85dB)
Operating Humidity	Up to 95%
Sensor Type	Carbon Monoxide Sensor, Combustible Gas Sensor
Material	ABS
Included Components	Combination Gas & Carbon Monoxide Detector
Batteries Required?	No

8. Warranty and Support

For warranty information or technical support, please refer to the product packaging or contact KOABBIT customer service through the retailer where the product was purchased. Keep your purchase receipt as proof of purchase.

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