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› KOABBIT KH885A 4-in-1 Natural Gas & Carbon Monoxide Detector User Manual

## KOABBIT KH885A

# KOABBIT KH885A 4-in-1 Natural Gas & Carbon Monoxide Detector User Manual

Model: KH885A

## INTRODUCTION

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This manual provides essential information for the proper installation, operation, and maintenance of your KOABBIT KH885A 4-in-1 Natural Gas & Carbon Monoxide Detector. This device is designed to monitor for natural gas, carbon monoxide, temperature, and humidity, providing real-time data and audible alarms for hazardous conditions. Please read this manual thoroughly before use and retain it for future reference.

## PRODUCT OVERVIEW

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The KOABBIT KH885A is an advanced 4-in-1 detector featuring high reliability, sensitivity, and accuracy. It integrates multiple sensors to provide comprehensive environmental monitoring.

### Key Features:

- **4-in-1 Sensor:** Detects Carbon Monoxide (CO), Natural Gas (Propane, Methane), Temperature, and Humidity.
- **Real-time Display:** Shows current CO concentration (0-2000 ppm), Natural Gas concentration (0-10% LEL), Temperature (1-176°F), and Humidity (0-99% RH%).
- **Dual Alarms:** Triggers an audible alarm ( $\geq 85$  dB) and flashing red light when CO reaches  $\geq 150$  ppm or Natural Gas reaches  $\geq 5\%$  LEL.
- **Plug-in Design:** Easy installation with 110V-220V AC power, ultra-low power consumption ( $\leq 2W$ ).
- **Self-Test Function:** Allows for manual testing of the alarm system.

### Components:



**Image Description:** A white KOABBIT KH885A 4-in-1 detector showing its front and back. The front panel features a digital display, power light, fault light, alarm light, test & reset button, and an 85dB alarm sound speaker. The back panel shows a rotatable plug and approximate dimensions (3.7 inches height, 2.4 inches width).

- **Digital Display:** Shows real-time readings for CO, Natural Gas, Temperature, and Humidity.
- **Power Light (Green):** Indicates normal operation.
- **Fault Light (Yellow):** Indicates a system fault or malfunction.
- **Alarm Light (Red):** Flashes during an alarm event.
- **Test & Reset Button:** Used to test the alarm and reset it after an alarm event.
- **85dB Alarm Sound:** Emits a loud alert during hazardous conditions.
- **Rotatable Plug:** Allows for flexible installation in various outlets.

## SETUP

1. **Unpack the Detector:** Carefully remove the detector from its packaging.

## 2. Choose a Location:

- Install near potential sources of gas leaks (e.g., gas stoves, water heaters, furnaces).
- For CO detection, place in living areas and sleeping areas.
- Avoid placing directly above heat sources, in direct sunlight, or near vents that could interfere with readings.
- Ensure the detector is not obstructed by furniture or curtains.

3. **Plug In the Detector:** Insert the detector directly into a standard 110V-220V AC electrical outlet. The plug can be rotated for optimal positioning.

4. **Initial Warm-up:** Upon plugging in, the detector will initiate a 180-second countdown. During this period, the sensors are stabilizing.

5. **Normal Operation Indicator:** After the 180-second countdown, the green Power Light will illuminate, indicating the device is operating normally and monitoring the environment.



**Image Description:** The KOABBIT KH885A detector plugged into a wall outlet in a modern kitchen setting, demonstrating its plug-in design and ease of installation.

## OPERATING INSTRUCTIONS

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### Real-time Monitoring:

The digital display continuously shows the following readings:

- **CO Concentration:** Displays Carbon Monoxide levels in parts per million (ppm). Range: 0-2000 ppm.
- **Natural Gas Concentration:** Displays combustible gas levels (e.g., methane, propane) as a percentage of the Lower Explosive Limit (% LEL). Range: 0-10% LEL.
- **Temperature:** Shows ambient temperature in Fahrenheit (°F). Range: 1-176°F.
- **Humidity:** Displays relative humidity in percentage (RH%). Range: 0-99% RH%.

# 4 Sensor Real-time Monitoring & Display

0-2000PPM

0-10%LEL

1-176°F

0-99% Humidity



**Image Description:** The KOABBIT KH885A detector plugged into an outlet, with its digital display showing real-time readings for CO (500 PPM), Natural Gas (8% LEL), Temperature (90°F), and Humidity (50% RH). The image also shows a living room environment.

## Alarm Conditions:

The detector will activate an alarm under the following conditions:

- **Carbon Monoxide Alarm:** When CO concentration reaches or exceeds 150 ppm.
- **Natural Gas Alarm:** When combustible gas concentration reaches or exceeds 5% LEL.

When an alarm is triggered, the red Alarm Light will flash, and an audible alarm ( $\geq 85$  dB) will sound. Take immediate action as described in the "What to Do in Case of an Alarm" section.

## Self-Test Function:

Press and hold the "SELF-TEST" button to manually test the alarm. The detector will emit a test sound and flash the alarm light, confirming its functionality. Release the button to stop the test.

## What to Do in Case of an Alarm:

1. **Evacuate Immediately:** Move everyone outdoors to fresh air.
2. **Do Not Re-enter:** Do not re-enter the premises until emergency services (fire department, gas company) have confirmed it is safe.
3. **Contact Emergency Services:** Call your local fire department or gas company from a safe location.
4. **Identify and Resolve Source:** Once safe, have a qualified professional identify and correct the source of the gas or CO leak.
5. **Reset Alarm:** After the area is cleared and safe, press the "SELF-TEST" button to reset the alarm.



**Image Description:** A visual guide demonstrating how to test the detector. It shows the detector after a 180-second warm-up with a green light, then suggests testing CO detection with cigarette smoke and gas detection with a lighter flame.

## MAINTENANCE

- **Regular Cleaning:** Dust can accumulate on the detector and interfere with sensor performance. Gently wipe the exterior with a soft, damp cloth at least once a month. Do not use cleaning sprays or solvents.
- **Do Not Paint:** Never paint the detector. Paint can clog the sensor openings and prevent the unit from functioning properly.
- **Test Weekly:** Press the "SELF-TEST" button weekly to ensure the alarm and lights are functioning correctly.
- **Avoid Obstructions:** Ensure that nothing is blocking the sensor openings or the alarm speaker.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
<b>No display or power light off.</b>	No power to the outlet.	Check the power outlet with another device. Ensure the detector is securely plugged in.
<b>Yellow Fault Light is on.</b>	Internal malfunction or sensor error.	Unplug the detector for 30 seconds and plug it back in. If the fault persists, the unit may need replacement.
<b>Alarm sounds without visible gas/CO source.</b>	Actual presence of gas/CO, or false alarm due to interfering substances.	Treat all alarms as real. Evacuate and contact emergency services. After clearance, ensure no strong fumes (e.g., cleaning products, aerosols) are near the detector.

Problem	Possible Cause	Solution
Temperature reading is inaccurate.	Placement near heat sources (e.g., other electronics, direct sunlight) or internal heat generation.	Relocate the detector away from direct heat sources. A slight variance is normal due to the device's operation.
Alarm volume seems low.	Obstruction of the speaker or ambient noise levels.	Ensure the speaker is not blocked. The alarm is rated at $\geq 85$ dB, which is standard. Consider placement in quieter areas if maximum audibility is critical.

## SPECIFICATIONS

Feature	Detail
Model Number	KH885A
Power Source	Plug-in (110V-220V AC)
Power Consumption	$\leq 2$ W
Detected Gases	Natural Gas (Methane, Propane), Carbon Monoxide
CO Detection Range	0-2000 ppm
Natural Gas Detection Range	0-10% LEL
Temperature Range	1-176°F
Humidity Range	0-99% RH%
Alarm Threshold (CO)	$\geq 150$ ppm
Alarm Threshold (Natural Gas)	$\geq 5\%$ LEL
Alarm Sound Level	$\geq 85$ dB
Material	ABS
Dimensions	Approximately 3.7"H x 2.4"W (Note: Product dimensions from source data 0.03"D x 0.03"W x 0.03"H appear to be incorrect; visual inspection suggests larger dimensions.)
Item Weight	0.32 ounces (9.07 g)

## SAFETY INFORMATION

Please observe the following safety precautions:

- This detector is designed to detect natural gas and carbon monoxide. It is not designed to detect smoke or fire.
- Regularly test the detector as per the maintenance instructions.
- Do not block the ventilation openings of the detector.

- Do not attempt to repair or modify the detector. Refer all servicing to qualified personnel.
- The detector's lifespan is limited. Replace the unit according to manufacturer recommendations or if it malfunctions.
- Be aware of the symptoms of carbon monoxide poisoning: headache, dizziness, nausea, vomiting, fatigue, and confusion. Prolonged exposure can be fatal.
- Natural gas leaks can lead to explosions or fires. If you suspect a gas leak, evacuate immediately and contact your gas provider or fire department.

## PROTECT YOUR FAMILY



**Image Description:** A collage showing the KOABBIT KH885A detector in a living room, alongside images of a gas water heater, a coal stove, and cooking with a coal stove, illustrating various potential sources of gas and CO that the detector helps protect against.

### WARRANTY AND SUPPORT

For warranty information or technical support, please contact KOABBIT customer service through the retailer where the product was purchased or refer to the official KOABBIT website for contact details. Please have your model number (KH885A) and purchase date available when contacting support.



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