

## KOABBIT KH106

# KOABBIT KH106 Plug-in Carbon Monoxide Detector User Manual

Model: KH106

## 1. INTRODUCTION

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Thank you for choosing the KOABBIT KH106 Plug-in Carbon Monoxide Detector. This device is designed to provide continuous monitoring of carbon monoxide (CO) levels, temperature, and humidity in your environment. It features a real-time digital display and an audible alarm to alert you to potential dangers. Please read this manual thoroughly before installation and use to ensure proper operation and safety.

## 2. PRODUCT FEATURES

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- **3-in-1 Detection:** Monitors Carbon Monoxide (CO) levels, ambient temperature (°F), and relative humidity (RH%).
- **Real-time Digital Display:** Clear, large digital screen for instant readings of all detected parameters.
- **High Sensitivity Sensor:** Equipped with an imported electrochemical sensor for accurate and rapid detection.
- **Audible and Visual Alarm:** Provides a loud alarm (>85dB) and flashing indicator lights when CO levels are detected.
- **Easy Installation:** Simple plug-and-play design for quick setup in any standard electrical outlet.
- **Self-Test Function:** Includes a dedicated button for periodic testing of the alarm's functionality.

## 3. SAFETY INFORMATION

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**WARNING:** This device is designed to detect carbon monoxide gas from any combustion source. It is not designed to detect smoke, fire, or other gases. Carbon monoxide is an odorless, colorless, and tasteless gas that can be fatal. Always ensure proper ventilation and never ignore an alarm.

### Important Safety Precautions:

- Do not block the ventilation openings on the detector.
- Do not paint the detector.
- Do not install in areas with high humidity, extreme temperatures, or excessive dust.
- Regularly test the alarm as instructed in this manual.
- If the alarm sounds, evacuate the premises immediately and call emergency services.

## 4. PRODUCT OVERVIEW

Familiarize yourself with the components of your KOABBIT KH106 detector:



Figure 1: Front and side view of the KOABBIT KH106 detector with labeled components including display, lights, alarm voice, and rotatable plug.

- **Display:** Shows CO concentration (PPM), temperature (°F), and humidity (RH%).

- **Power Light:** Green indicator for normal operation.
- **Fault Light:** Yellow indicator for device malfunction.
- **Alarm Light:** Red indicator for CO detection.
- **Test & Reset Button:** Used to test the alarm and silence it.
- **Alarm Voice:** Speaker for audible alerts.
- **Rotatable Plug:** Allows for flexible orientation in outlets.

## 5. SETUP AND INSTALLATION

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The KOABBIT KH106 is designed for simple plug-and-play installation.

### Placement Guidelines:

- Install at least 5 feet (1.5 meters) away from any fuel-burning appliance to avoid false alarms.
- Place in areas where CO is likely to be present, such as near furnaces, water heaters, or gas stoves.
- For optimal detection, install at knee level or higher, but not directly above heat sources.
- Avoid corners, behind curtains, or in areas with obstructed airflow.

### Installation Steps:

1. Select a suitable location based on the guidelines above.
2. Ensure the electrical outlet is functioning correctly.
3. Plug the detector directly into a standard 120V AC electrical outlet. The plug can be rotated for vertical or horizontal orientation.
4. Upon plugging in, the device will initiate a self-test and calibration sequence, indicated by flashing lights and an audible voice prompt. This process typically takes 180 seconds. During this time, the CO reading may fluctuate.
5. Once calibration is complete, the display will show current temperature, humidity, and a CO level of 0 PPM (assuming no CO is present). The green Power light will remain steadily lit.

**SAVES INSTALLATION TIME, ALLOWING  
YOU MORE TIME TO ENJOY LIFE**



Figure 2: Example installation of the detector in a kitchen outlet.

## 6. OPERATING INSTRUCTIONS

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### Display Information:

# DISPLAY ALWAYS SHOWS ACCORDING TO AMBIENT CONDITIONS



Figure 3: Digital display showing real-time environmental readings.

- **Temperature (°F):** Displays the ambient temperature in Fahrenheit.
- **CO (PPM):** Displays the carbon monoxide concentration in parts per million. A reading of 0 PPM indicates no detectable CO.
- **Humidity (RH%):** Displays the relative humidity percentage.

## Self-Test Function:

Press the 'SELF-TEST' button to manually test the alarm. The device will emit a loud alarm sound and flash all indicator lights. This confirms the alarm and display are functioning correctly. Release the button to stop the test.

## 7. ALARM CONDITIONS AND ACTIONS

The detector is programmed to alarm at specific CO concentrations and durations:

CO Concentration (PPM)	Alarm Time
30 PPM	Within 120 minutes

CO Concentration (PPM)	Alarm Time
50 PPM	Within 60-90 minutes
100 PPM	Within 10-40 minutes
300 PPM	Within 3 minutes

### What to do when the alarm sounds:

1. Immediately move to fresh air outdoors or open all doors and windows to ventilate the area.
2. Do a head count to check that all persons are accounted for.
3. Do not re-enter the premises until the CO alarm has stopped and the area has been thoroughly ventilated.
4. Call your emergency services or fire department.
5. Contact a qualified technician to investigate the source of the CO.



Figure 4: Detector providing protection in areas with combustion sources like coal stoves, gas water heaters, and gas stoves.

## 8. MAINTENANCE

- **Regular Testing:** Press the 'SELF-TEST' button weekly to ensure the alarm is functioning.
- **Cleaning:** Gently wipe the exterior of the detector with a soft, damp cloth. Do not use cleaning agents or solvents.
- **Avoid Obstruction:** Ensure that the ventilation openings are free from dust, debris, or any obstructions.

## 9. TROUBLESHOOTING

- **Alarm Sounds Without Detectable CO:** Ensure the device has completed its 180-second calibration period. If false alarms persist, try relocating the detector further from potential sources of fumes (e.g., cooking, cleaning products).
- **Fault Light On:** If the yellow fault light illuminates, the detector may be malfunctioning. Unplug the device for 30 seconds and plug it back in. If the fault light remains, the unit may need replacement.
- **Display is Dim:** Check the power connection. If the display remains dim, the unit may be faulty or nearing its end of life.
- **No Display/Power:** Ensure the outlet has power. Try plugging another device into the same outlet. If the outlet is functional, the detector may be faulty.

## 10. SPECIFICATIONS

Feature	Detail
Brand	KOABBIT
Model Number	KH106
Style	1 Pack-3 in 1
Power Source	Plug and Play (AC 120V)
Product Dimensions	0.02"D x 0.03"W x 0.02"H
Item Weight	22.68 g
Alarm	Audible Alarm (>85dB)
Material	ABS
Manufacturer	Shenzhen Kanghua Shengshi Industrial Co., LTD

## 11. WARRANTY AND SUPPORT

For warranty information, technical support, or any questions regarding your KOABBIT KH106 Carbon Monoxide Detector, please refer to the documentation included with your purchase or contact the manufacturer directly through their official channels. Keep your purchase receipt as proof of purchase.

