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> Langkou 8-in-1 Natural Gas Leak and Carbon Monoxide Detector (Model YQ-W-001) Instruction Manual

Langkou YQ-W-001

Langkou 8-in-1 Natural Gas Leak and Carbon Monoxide Detector (Model YQ-W-001) Instruction Manual

Your guide to safe and effective use.

1. INTRODUCTION

Thank you for choosing the Langkou 8-in-1 Natural Gas Leak and Carbon Monoxide Detector. This device is designed to provide comprehensive environmental monitoring for your home, RV, or apartment, integrating detection of carbon monoxide (CO), natural gas (LEL), temperature, and humidity. Please read this manual thoroughly before installation and operation to ensure proper use and safety.

2. PRODUCT OVERVIEW

The Langkou YQ-W-001 detector is a multi-functional safety device featuring a high-definition LCD screen and dual sensors for accurate readings. It is designed for continuous monitoring and provides both audible and visual alarms when hazardous conditions are detected.

2.1 Key Features

- **8-in-1 Monitoring:** Detects Carbon Monoxide (PPM), Natural Gas (%LEL), Temperature (°F), and Humidity (RH%).
- **High-Precision Sensors:** Equipped with dual sensors for rapid and accurate detection.
- **HD LCD Screen:** Displays real-time data for all monitored parameters.
- **Audio-Visual Alarms:** Emits an 85-decibel alarm and changes indicator light color upon detection of hazardous levels.
- **Portable Plug-in Design:** Compact and easy to install by plugging directly into an AC outlet (110V~220V).
- **Energy Efficient:** Low standby power consumption ($\leq 2W$).

2.2 Components and Display

Familiarize yourself with the device's display and controls:

SIMPLE DESIGN FOR EASY OPERATION

Concentration Display window

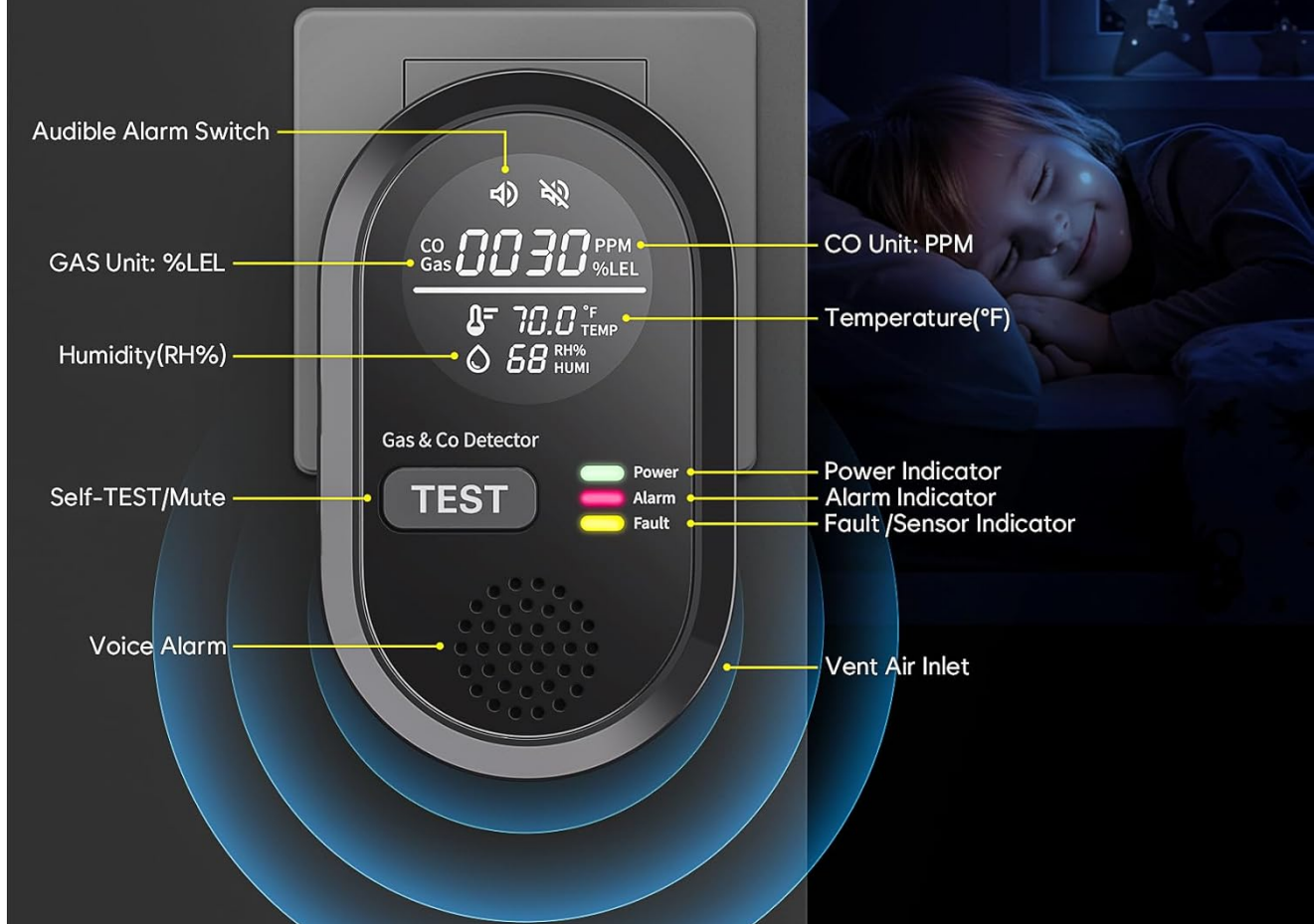


Image 2.2.1: Front view of the Langkou detector, highlighting the concentration display window, audible alarm switch, GAS unit (%LEL), CO unit (PPM), humidity (RH%), temperature (°F), Self-TEST/Mute button, voice alarm speaker, vent air inlet, Power indicator, Alarm indicator, and Fault/Sensor indicator.

- **Concentration Display Window:** Shows real-time CO, Gas, Temperature, and Humidity readings.
- **Audible Alarm Switch:** Controls the sound of the alarm.
- **Self-TEST/Mute Button:** Used to test the alarm function and silence an active alarm.
- **Voice Alarm:** Speaker for audible alerts.
- **Vent Air Inlet:** Allows air samples to reach the internal sensors.
- **Power Indicator (Green):** Illuminates when the device is powered on.
- **Alarm Indicator (Red):** Flashes during an alarm condition.
- **Fault/Sensor Indicator (Yellow):** Illuminates or flashes to indicate a device malfunction or sensor issue.

3. SAFETY INFORMATION

This device is an important safety tool. Please observe the following precautions:

- Do not block the vent air inlet.

- Do not paint the device or allow chemicals to come into contact with it.
- Regularly test the device as instructed in this manual.
- This detector is designed to alert you to the presence of carbon monoxide and natural gas. It is not a substitute for proper maintenance of fuel-burning appliances or ventilation systems.
- In case of an alarm, immediately follow emergency procedures for gas leaks or carbon monoxide exposure.

4. SETUP AND INSTALLATION

The Langkou detector is designed for easy plug-and-play installation.

4.1 Choosing a Location

Select a location where the detector can effectively monitor the air without obstruction. Consider the following:

- Install near potential sources of gas leaks (e.g., kitchen with gas stove, utility room with water heater).
- For carbon monoxide, place at breathing level, typically 1-3 meters (3-10 feet) from potential CO sources like fireplaces or furnaces.
- Avoid placing directly above heat sources, in direct sunlight, or in areas with high humidity (e.g., bathrooms).
- Ensure the device is not covered by furniture, curtains, or other objects that could block the air inlets.



Image 4.1.1: Examples of suitable installation locations including RVs, kitchens, storage rooms, and garages, demonstrating the detector plugged into a wall outlet.

4.2 Powering On the Device

1. Plug the detector directly into a standard AC 110V~220V wall outlet.
2. The device will perform a self-test, and the display will illuminate.
3. The Power indicator (green light) will turn on, indicating the device is receiving power.
4. Allow a few minutes for the sensors to stabilize and begin displaying readings.

5. OPERATING INSTRUCTIONS

5.1 Reading the Display

The HD LCD screen provides continuous real-time readings:

- **CO:** Carbon Monoxide concentration in Parts Per Million (PPM).
- **Gas:** Natural Gas concentration in % Lower Explosive Limit (%LEL).

- **TEMP:** Ambient temperature in degrees Fahrenheit (°F).
- **HUMI:** Relative humidity in percentage (RH%).

5.2 Self-Test Function

It is recommended to test the detector weekly to ensure proper operation.

1. Press and hold the "TEST" button on the front of the device.
2. The device will emit a loud alarm sound (85dB) and the Alarm indicator (red light) will flash.
3. Release the button to stop the test. If the alarm does not sound or the indicator light does not flash, refer to the Troubleshooting section.

5.3 Mute Function

In case of a false alarm or during a test, you can temporarily mute the audible alarm.

- Press the "TEST" button briefly during an active alarm to silence the audible alert. The visual indicators will continue to function.
- The alarm will reactivate if the hazardous condition persists after a set period or if the concentration increases.

6. ALARM INFORMATION

The detector provides both audible and visual warnings based on detected gas concentrations.

6.1 Alarm Thresholds and Indicators

HIGH-PRECISION SENSOR

Quick response, providing excellent home protection

Fresh & Healthy

(Normal External Levels)

CO:0~75PPM

GAS:LV1<5% LEL

Green indicator light

No audible alarm

Attention Air

(CO / GAS Indicator)

CO:76~150PPM

GAS:6%<LV2<10% LEL

Yellow indicator light flashes

Slowly audible alarm

Severe Pollution

(Expected Harmful Health Indicators)

CO:151~1000PPM

Gas:Lv3>10%LEL

Red indicator light flashes

Fast audible alarm



Image 6.1.1: Diagram illustrating the different alarm levels for CO and Natural Gas, including corresponding indicator light colors and alarm behavior.

- **Normal External Levels (Green Light, No Audible Alarm):**
CO: 0-75 PPM
GAS: <5% LEL
- **Attention Air (Yellow Light Flashes, Slowly Audible Alarm):**
CO: 76-150 PPM
GAS: 5% LEL to <10% LEL
- **Severe Pollution (Red Light Flashes, Fast Audible Alarm):**
CO: 151-1000 PPM
GAS: \geq 10% LEL

When an alarm is triggered, the device will emit an 85-decibel sound and the circular indicator light below the screen will change color according to the alarm level.

MEASUREMENT SCENARIOS - INDICATOR VALUE DIFFERENCES

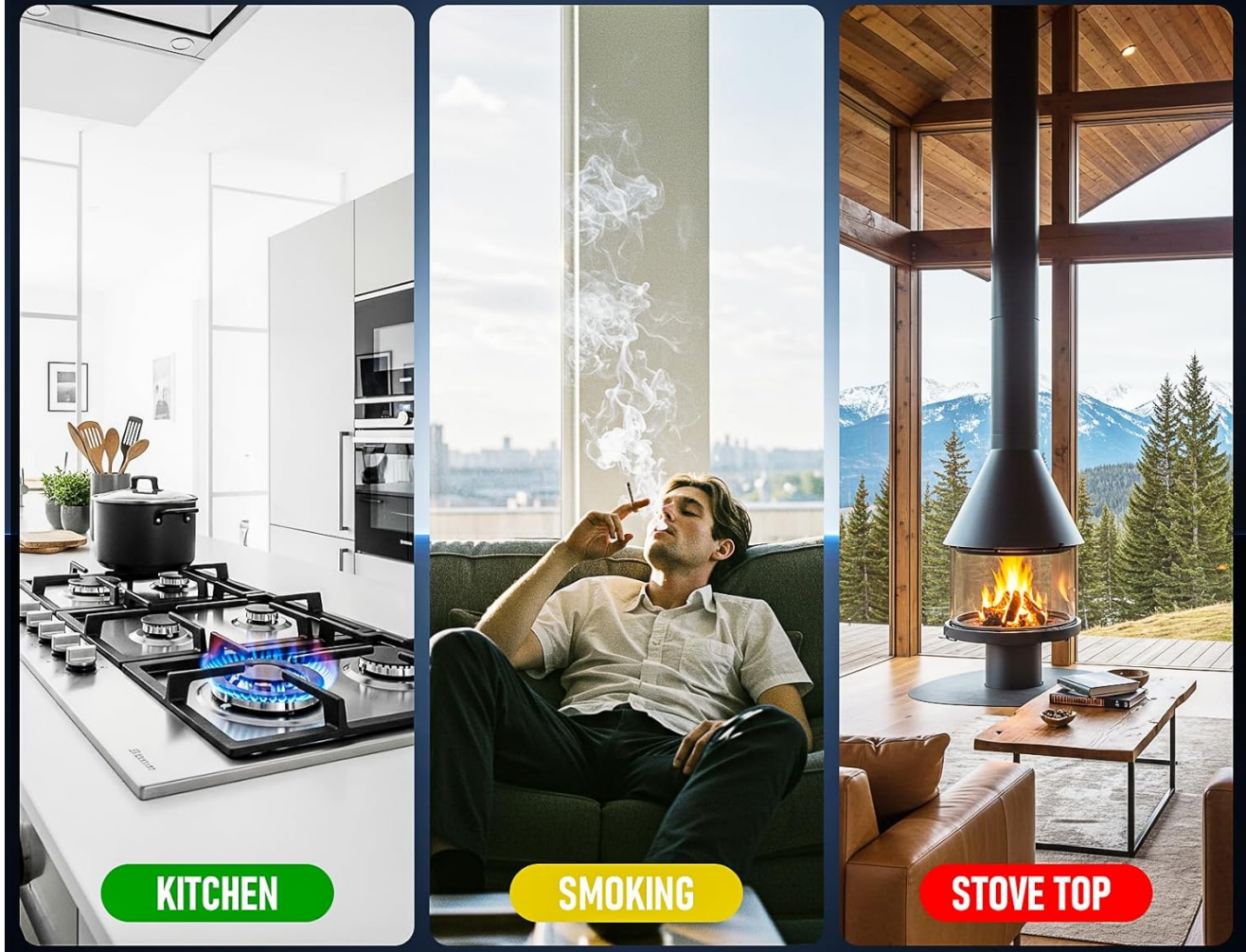


Image 6.1.2: Visual representation of the detector alarming in a kitchen due to LPG/Propane/CH₄ and near a fireplace due to Carbon Monoxide, with an audible alarm exceeding 85dB.

6.2 Emergency Procedures

In case of a Carbon Monoxide or Natural Gas alarm:

1. **Evacuate Immediately:** Move everyone, including pets, to fresh air outdoors.
2. **Do Not Re-enter:** Do not re-enter the premises until emergency services (fire department or gas company) have confirmed it is safe.
3. **Identify and Resolve Source:** Once safe, identify and correct the source of the gas leak or CO production.
4. **Seek Medical Attention:** If anyone experiences symptoms of CO poisoning (headache, nausea, dizziness), seek immediate medical attention.

7. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your detector.

- **Regular Cleaning:** Gently wipe the exterior of the detector with a soft, damp cloth. Do not use cleaning agents or

solvents.

- **Keep Vents Clear:** Ensure the air inlets are free from dust, debris, or obstructions.
- **Avoid Extreme Conditions:** Do not expose the detector to extreme temperatures, high humidity, or direct water spray.
- **Do Not Disassemble:** Do not attempt to open or repair the device. This will void the warranty and could compromise safety.

8. TROUBLESHOOTING

If you encounter issues with your detector, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No display/No power	No power from outlet; device malfunction.	Check if the outlet is working. Try a different outlet. If still no power, contact support.
Fault/Sensor Indicator (Yellow) is on	Sensor error or device malfunction.	Unplug the device for 1 minute, then plug it back in. If the indicator persists, contact support.
Alarm sounds frequently without apparent cause	High background levels of gas/CO; false alarm; sensor sensitivity.	Ventilate the area. Ensure no sources of gas/CO are present. Relocate the detector if necessary. If it persists, contact support.
Self-test fails (no sound/light)	Device malfunction.	Ensure the device is powered. Repeat the self-test. If it continues to fail, contact support.

If the problem persists after attempting these solutions, please contact Langkou customer support.

9. SPECIFICATIONS

Detailed technical specifications for the Langkou YQ-W-001 detector:

Feature	Specification
Brand	Langkou
Model Number	YQ-W-001
Power Source	AC 110V~220V (Plug-in)
Standby Power Consumption	≤2W
Product Dimensions	2.5"D x 1"W x 2.5"H (approx.)
Item Weight	8 ounces
Alarm Type	Audible (≥85dB) and Visual (LED indicators)
CO Detection Range	0-1000 PPM
Natural Gas Detection Range	0-10% LEL

Feature	Specification
Temperature Display Range	32-212°F (±1.8°F accuracy)
Humidity Display Range	0-99% RH (±3% accuracy)
Included Components	Carbon Monoxide Meter

10. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation included with your purchase or contact the seller directly. You may also visit the official Langkou store on Amazon for more information: [Langkou Store](#).