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

Langkou YQ-W-001

Langkou 8-in-1 Carbon Monoxide and Natural Gas Detector User Manual

Model: YQ-W-001

1. INTRODUCTION

The Langkou 8-in-1 Carbon Monoxide and Natural Gas Detector (Model YQ-W-001) is designed to provide continuous monitoring of indoor air quality. This device integrates multiple detection functions, including carbon monoxide (CO) concentration, natural gas (LEL) concentration, temperature, and humidity. It features a clear HD display and an audible/visual alarm system to alert users to potentially hazardous conditions.



Image: Two Langkou 8-in-1 Carbon Monoxide and Natural Gas Detectors, illustrating the product's design and compact size.

Key Features:

- **8-in-1 Functionality:** Monitors Carbon Monoxide (PPM), Natural Gas (%LEL), Temperature (°F), and Humidity (RH%).
- **Dual Sensors:** Equipped with sensors for both carbon monoxide and natural gas detection.
- **Dual Alarm System:** Emits an 85-decibel audible alarm and changes indicator light color when gas concentrations exceed set thresholds.
- **Portable Design:** Compact and lightweight, suitable for home, RV, hotel, and travel use.

- **High-Precision Monitoring:** Large LCD screen displays real-time data for immediate air quality assessment.
- **Energy Efficient:** Plug-in design compatible with AC 110V~220V power sources, with low standby power consumption ($\leq 2W$).

2. IMPORTANT SAFETY INFORMATION

Please read all instructions carefully before using the detector. Failure to follow these instructions may result in product malfunction, property damage, or personal injury.

- This device is intended for indoor use only.
- Do not block the vent inlet on the detector.
- Do not paint the detector. Paint can clog the vents and interfere with sensor operation.
- Do not install in areas with high humidity, extreme temperatures, or excessive dust.
- Regularly test the detector as described in this manual.
- In case of an alarm, immediately follow the emergency procedures outlined in this manual.
- This detector is not a substitute for proper installation and maintenance of fuel-burning appliances, including appropriate ventilation systems.

3. PACKAGE CONTENTS

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

4. PRODUCT COMPONENTS AND DISPLAY

Familiarize yourself with the various parts and indicators of your detector:

SIMPLE DESIGN FOR EASY OPERATION

Concentration Display window



Image: Detailed diagram showing the components of the Langkou 8-in-1 detector, including the display, buttons, and indicators.

- **Concentration Display Window:** Shows CO (PPM), Gas (%LEL), Temperature (°F), and Humidity (RH%).
- **Audible Alarm Switch:** Controls the audible alarm function.
- **GAS Unit:** Indicates Natural Gas concentration in %LEL.
- **Humidity (RH%):** Displays relative humidity.
- **Self-TEST/Mute Button:** Used to test the alarm and mute an active alarm.
- **Voice Alarm:** Speaker for audible alerts.
- **Vent Air Inlet:** Area where air samples are drawn for detection.
- **CO Unit:** Indicates Carbon Monoxide concentration in PPM.
- **Temperature (°F):** Displays ambient temperature.
- **Power Indicator:** Green light indicates normal operation.
- **Alarm Indicator:** Red light flashes during an alarm.
- **Fault/Sensor Indicator:** Yellow light indicates a fault or sensor issue.

CLEAR & TRANSPARENT VISUAL ALARMS LCD DISPLAY

Electrochemical sensors monitor safety indicator values in real-time and provide alerts (alarm sound ≥ 85 db).



Image: A close-up view of the detector's LCD display, clearly showing readings for CO, natural gas, temperature, and humidity, along with the alarm indicator.

5. INSTALLATION AND SETUP

Placement Guidelines:

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

- Install at least one detector on each level of your home, especially near sleeping areas and living spaces.
- For carbon monoxide, place the detector at knee level or higher, as CO mixes with air.
- For natural gas (methane), which is lighter than air, place the detector higher on the wall, near the ceiling.
- For LPG (propane), which is heavier than air, place the detector lower on the wall, near the floor.
- Avoid placing the detector directly above or next to fuel-burning appliances, in direct sunlight, or in areas with strong drafts.
- Ensure the detector is within 10-20 feet of potential gas or CO sources.

Powering On:

The detector is designed for simple plug-and-play operation.

1. Locate a standard AC 110V~220V electrical outlet in your desired monitoring location.
2. Plug the detector directly into the outlet.
3. Upon initial power-up, the detector will perform a self-test. The display will light up, and the indicator lights may cycle.
4. Once the self-test is complete, the display will show current CO, Gas, Temperature, and Humidity readings. The green Power Indicator light will illuminate, indicating normal operation.



Image: The Langkou detector plugged into a wall outlet in a bedroom, demonstrating its use for continuous air quality monitoring.

6. OPERATING INSTRUCTIONS

Understanding the Display:

The LCD screen provides real-time readings:

- **CO (PPM):** Carbon Monoxide concentration in parts per million.
- **Gas (%LEL):** Natural Gas concentration as a percentage of the Lower Explosive Limit.
- **TEMP (°F):** Ambient temperature in Fahrenheit.
- **HUMI (RH%):** Relative humidity percentage.

Alarm System:

The detector features both audible and visual alarms to indicate hazardous conditions.

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: An illustration detailing the three alarm levels (Fresh & Healthy, Attention Air, Severe Pollution) for CO and gas, showing the corresponding PPM/LEL ranges, indicator light colors, and alarm sounds.

Alarm Thresholds and Indicators

Condition	CO Concentration	Natural Gas Concentration	Indicator Light	Audible Alarm
Fresh & Healthy	0-75 PPM	<5% LEL	Green	No alarm
Attention Air	76-150 PPM	5% LEL to <10% LEL	Yellow (slow flash)	Slow audible alarm
Severe Pollution	151-1000 PPM	≥10% LEL	Red (fast flash)	Fast audible alarm (85 dB)

What to do if an Alarm Sounds:

1. **Evacuate Immediately:** Move everyone, including pets, to fresh air outdoors.

2. **Call Emergency Services:** From a safe location, call your local emergency services (e.g., 911) or your gas supplier.
3. **Do Not Re-enter:** Do not re-enter the premises until emergency responders have declared it safe.
4. **Identify and Resolve Source:** Once safe, have a qualified technician inspect and repair the source of the carbon monoxide or natural gas leak.

Testing the Detector:

Regular testing ensures your detector is functioning correctly.

1. **Self-Test Button:** Press and hold the "TEST" button on the front of the detector. The alarm should sound, and indicator lights should flash. Release the button to stop the test. Perform this test weekly.
 2. **CO Test (Cigarette Smoke):** To test the CO sensor, you can expose the detector to cigarette smoke. Hold a lit cigarette near the vent air inlet. The CO reading should increase, and the alarm may activate if the concentration reaches the threshold.
 3. **Gas Test (Burning Paper in Enclosed Space):** To test the gas sensor, you can burn a small piece of paper in an enclosed space near the detector. The gas reading should increase, and the alarm may activate. Exercise caution during this test.
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HOW TO TEST CARBON MONOXIDE DETECTOR



Test the alarm's functionality using cigarette smoke



Test the machine's numerical changes under enclosed conditions by burning paper

Image: Visual guide on how to test the carbon monoxide detector using cigarette smoke and how to test for gas by burning paper in an enclosed environment.

7. CARE AND MAINTENANCE

- **Cleaning:** Gently wipe the exterior of the detector with a soft, damp cloth. Do not use cleaning agents, solvents, or abrasive materials. Do not spray cleaners directly onto the detector.
- **Ventilation:** Ensure the vent air inlets are free from dust, debris, or obstructions.
- **Regular Checks:** Perform the self-test weekly to confirm proper operation.
- **Sensor Lifespan:** Electronic sensors have a limited lifespan. Replace the detector according to the manufacturer's recommendations or if the Fault/Sensor Indicator light remains on after troubleshooting.

8. TROUBLESHOOTING

Common Issues and Solutions

Problem	Possible Cause	Solution
Detector does not power on.	No power from outlet.	Check if the outlet is functional by plugging in another device. Ensure the detector is fully inserted.
Alarm sounds without apparent gas/CO.	False alarm due to aerosols, cleaning products, or temporary high concentrations.	Ventilate the area. Press the Mute button. If the alarm persists, treat it as a real alarm and evacuate.
Fault/Sensor Indicator (Yellow light) is on.	Sensor malfunction or end of sensor life.	Unplug and re-plug the detector. If the light remains on, the unit may need replacement.
Display is dim or unreadable.	Power issue or display fault.	Ensure stable power supply. If issue persists, contact support.

9. TECHNICAL SPECIFICATIONS

Langkou 8-in-1 Detector Specifications

Feature	Detail
Brand	Langkou
Model Number	YQ-W-001
Power Source	AC 110V~220V Plug-in
Standby Power Consumption	≤2W
Color	White
Product Dimensions	2.5"D x 1"W x 2.5"H
Item Weight	8 ounces (approx. 0.5 Pounds)
Alarm Type	Audible (85 dB) and Visual
CO Detection Range	0-1000 PPM
Natural Gas Detection Range	0-10% LEL
Included Components	Carbon Monoxide Meter

10. PRODUCT DISPOSAL

This product contains electronic components and should not be disposed of with household waste. Please dispose of the device in accordance with local regulations for electronic waste recycling.

11. SUPPORT

For technical support, warranty information, or further assistance, please refer to the contact information provided with your purchase or visit the official Langkou website.



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