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› Lunarlipis 4-in-1 CO & Natural Gas Detector User Manual

Lunarlipis PTH-24E

Lunarlipis 4-in-1 CO & Natural Gas Detector User Manual

MODEL: PTH-24E

Brand: Lunarlipis

1. Introduction and Overview

The Lunarlipis PTH-24E is an advanced 4-in-1 combination detector designed to enhance the safety of your home by continuously monitoring critical environmental factors. This device integrates sensors for Carbon Monoxide (CO), combustible gases (such as propane, LPG, and explosive gases), temperature, and humidity. Its user-friendly plug-in design and clear digital display make it an essential tool for maintaining a safe living environment.

PLUG-IN COMBINATION GAS & CARBON MONOXIDE



Carbon Monoxide

0~999 PPM ($\pm 10\%$)



Combustible Gas

Level 1-4, Lv4
(15% LEL)



Temperature

14~122°F ($\pm 2.7^\circ\text{F}$) /
-10~50°C ($\pm 1.5^\circ\text{C}$)



Humidity

0~95% RH ($\pm 5\%$)

Figure 1: The Lunarlipos PTH-24E detector monitoring a home environment.

2. Key Features

- **4-in-1 Monitoring:** Real-time detection of Carbon Monoxide (CO), combustible gases, temperature (14~122°F / -10~50°C), and humidity (0~95%RH).
- **4-Stage Alarm System:** Visual (icons, indicator lights) and audible (85dB) alerts corresponding to gas concentration levels (Good, Attention, Warning, Danger).
- **Plug-and-Play Design:** Easily plugs into any standard AC outlet (100-220V) for continuous power.
- **2-inch HD Color Screen:** Clear and intuitive display of all monitored parameters.
- **Gas Sensitivity Switching:** Innovative function to adjust sensitivity for different gas environments (S1 for Methane, S2 for Butane, Alcohols, etc.).
- **Screen Flip Function:** Allows the display to rotate 180° for optimal viewing in various outlet orientations.
- **Safety Standards:** Built-in independent CO and combustible gas sensors complying with UL2034 and UL1484 standards.

Lunarlipes **PLUG-IN 4-IN-1 CO & GAS DETECTOR**

Combination Carbon Monoxide And Gas Detector Monitors CO, Combustible Gas, Temperature And Humidity In Real Time And Is Designed For Home Safety.

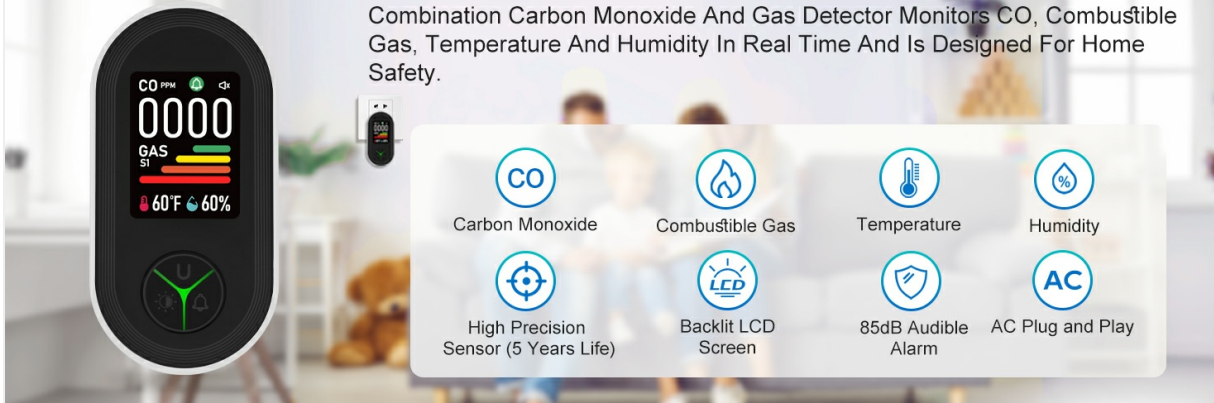


Figure 2: Overview of the detector's primary functions and features.

3. Safety Information

This detector is a crucial safety device. Please read and understand all instructions before use. Proper placement and regular testing are vital for its effective operation. Do not block the air inlets or outlets. In case of an alarm, follow the instructions provided in the 'Alarm Indications' section immediately.



Figure 3: Recommended placement areas for the detector, including kitchens, bedrooms, and offices.

4. Setup

The PTH-24E detector is designed for simple plug-and-play installation.

1. **Unpacking:** Carefully remove the detector and user manual from the packaging.
2. **Placement:** Choose a standard AC outlet (100-220V) in an area where gas detection is critical, such as near gas appliances, in bedrooms, or living areas. Ensure the detector is not obstructed and has good air circulation. Avoid placing it directly above heat sources or in areas with high humidity (e.g., directly above a shower).
3. **Plug-in:** Plug the detector directly into the chosen AC outlet. The device will power on automatically.
4. **Warm-up:** Allow approximately 30 seconds for the detector to warm up and stabilize. The display will show readings for CO, gas, temperature, and humidity.



Figure 4: Front and back view of the detector, showing the plug mechanism.

Testing the Detector

To ensure the unit is functioning correctly, a simple test can be performed:

1. Plug the CO & Gas Detector into an outlet and wait approximately 30 seconds to warm up.
2. Place a lit cigarette near the detector's vent. You will soon see a change in the CO value or Gas Level on the display. This proves that the unit is working properly.

NOTE: When detecting exhaust duct or stove, if your car engine, stove gas are burning clean, then it will always show 0000 PPM.



Figure 5: Steps for testing the detector's sensitivity.

5. Operating Instructions

The PTH-24E features an intuitive interface with a 2-inch HD color screen and simple button controls.



Figure 6: Detailed view of the detector's display and control buttons.

Display Elements:

- **CO Unit (PPM):** Displays Carbon Monoxide concentration.
- **GAS Sensitivity (S1-S2):** Indicates the current gas sensitivity mode.
- **Temperature:** Shows ambient temperature in Fahrenheit or Celsius.
- **Humidity:** Displays relative humidity percentage.
- **Alert Icon:** Visual indicator for alarm status.
- **Sound Icon:** Indicates if the audible alarm is enabled/disabled.
- **CO Value:** Numerical reading of CO concentration.
- **GAS (Level 1-4):** Bar graph indicating combustible gas levels.

Button Functions:



Figure 7: Simplified guide to button controls and indicator lights.

- **Left Button (Brightness/Sensitivity):**
 - Short Press: Adjusts screen brightness (High, Low, Turn OFF).
 - Long Press: Switches GAS sensitivity (S1 Low Sensitivity for Methane, S2 High Sensitivity for Butane, Alcohols, etc.).
- **Right Button (Alarm/Screen Flip):**
 - Short Press: Turns the buzzer (audible alarm) ON or OFF.
 - Long Press: Flips the screen display 180°.
- **Top Button (Temperature Unit/Reset):**
 - Short Press: Switches temperature unit between Celsius (°C) and Fahrenheit (°F).
 - Long Press: Resets the device.

NOTE: After turning OFF the screen, the device will continue to work with the RGB indicator blinking at a low frequency.

6. Alarm Indications

The detector provides clear 4-stage visual and audible alerts based on the concentration of CO and combustible gases.

4-STAGE VISUAL & AUDIBLE ALERT

The Combination CO & Gas Detector Can Determine If The Current Air Environment Is Safe By Using An Alert Icon, Indicator Light, Or Audible Alarm.



Figure 8: Detailed breakdown of alarm stages and corresponding actions.

Stage	CO Concentration	Combustible Gas Level	Indicator/Alarm
Good	0~50 PPM	Lv1 < 5% LEL	Green Light, No Audible Alarm
Attention	51~100 PPM	5% < Lv2 < 8% LEL	Yellow-Green Indicator Blinking Slowly, Audible Alarm Sounded
Warning	101~150 PPM	8% ≤ Lv3 < 15% LEL	Orange Indicator Blinking Fast, Audible Alarm Sounded
Danger	151~999 PPM	Lv4 ≥ 15% LEL	Red Indicator Blinking Fast, Audible Alarm Sounded

NOTE: When CO reaches 51 PPM or combustible gas reaches Lv2, the alarm will emit an 85dB sound. The buzzer (audible alarm) cannot be turned OFF when the CO or Gas Concentration reaches Level 4 (Danger).

7. Maintenance

To ensure optimal performance and longevity of your Lunarlipex detector, follow these simple maintenance guidelines:

- **Cleaning:** Regularly wipe the exterior of the detector with a soft, dry cloth. Do not use cleaning sprays,

polishes, or solvents.

- **Avoid Obstructions:** Ensure that the air vents on the detector are not blocked by dust, debris, or other objects.
- **Regular Testing:** Perform the cigarette test (as described in Section 4) periodically to confirm sensor responsiveness.
- **Sensor Lifespan:** The built-in sensors are designed for high reliability. While no user replacement is needed, be aware of the product's overall lifespan.

8. Troubleshooting

If you encounter any issues with your detector, please refer to the following common scenarios:

- **Alarm Sounds:** If the alarm sounds (yellow, orange, or red indicator), immediately ventilate the area by opening windows and doors. Evacuate all occupants and call emergency services if you suspect a gas leak or high CO levels. Do not re-enter until the area has been declared safe.
- **No Display/Power:** Ensure the detector is securely plugged into a functioning AC outlet (100-220V). If the issue persists, try a different outlet.
- **Inaccurate Readings:** Ensure the detector is placed in an appropriate location, away from direct drafts, extreme temperatures, or high humidity. Recalibrate by performing a long press on the top button (Reset).

For further assistance or issues not covered here, please contact Lunarlipex Customer Service.

9. Specifications

Specification	Detail
Brand	Lunarlipex
Model	PTH-24E
Style	Plug-in 4-in-1 PTH-24E
Power Source	AC (100-220V)
Color	White
Product Dimensions	2.16"D x 2.05"W x 4.13"H
Item Weight	0.17 Pounds (2.72 ounces)
Alarm Type	Audible, Visual
Operating Humidity	0% to 95% RH
Upper Temperature Rating	122 Degrees Fahrenheit (50 Degrees Celsius)
Material	ABS + Metal
Included Components	1 x User Manual, 1 x Combination CO & Gas Detector PTH-24E
Manufacturer	Protech International Group Co., Ltd.
Country of Origin	China

10. Warranty and Support

Lunarlipex stands behind the quality of its products. The PTH-24E detector comes with:

- **3 Years Service:** Comprehensive service coverage for your peace of mind.
- **Lifetime Technical Support:** Dedicated support to assist you with any technical queries or issues throughout the product's lifespan.

If you encounter any problems or require assistance, please contact us through Amazon Customer Service or the Q&A section on the product page. Our team aims to reply within 12 hours to ensure your satisfaction.