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› [Kalawen 4-in-1 Carbon Monoxide & Natural Gas Leak Detector \(Model PTH-24E\) Instruction Manual](#)

Kalawen PTH-24E

Kalawen 4-in-1 Carbon Monoxide & Natural Gas Leak Detector (Model PTH-24E) Instruction Manual

Brand: Kalawen | Model: PTH-24E

[System](#) [Specifications](#) [Overview](#) [Setup](#) [Maintenance](#) [Operation](#) [Alarm](#) [Troubleshooting](#) [Support](#)

1. PRODUCT OVERVIEW

The Kalawen 4-in-1 Carbon Monoxide & Natural Gas Leak Detector is a versatile safety device designed to monitor your environment for hazardous gases, temperature, and humidity. This plug-in unit provides real-time readings and alerts to ensure the safety of your home, RV, or office.

It detects a wide range of combustible gases including natural gas, propane, methane, town gas, alcohol, gasoline, hexane, butane, benzene, ethylene oxide, acetylene, LPG, and LNG, in addition to carbon monoxide (CO).

4-in-1 Plug in Gas & Carbon Monoxide Detector with Fahrenheit(°F) & Humidity

0~999PPM
(± 10%)

0~15%
LEL

14~122°F
(±2.7°F)

0~95% RH
(±5%)

Real-Time
Digital Display

>85DB
Voice Alarm

Flip the Screen
180 Degrees



Image: The Kalawen 4-in-1 detector plugged into a wall outlet, displaying its multi-function screen with readings for CO, combustible gas levels, temperature in Fahrenheit, and humidity percentage. The screen is bright and easy to read, indicating its real-time monitoring capabilities.

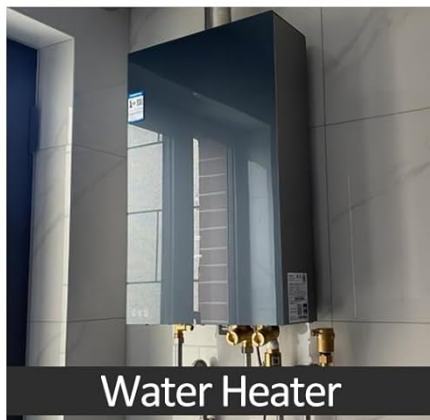
2. SETUP INSTRUCTIONS

1. **Unpacking:** Carefully remove the detector from its packaging.
2. **Protective Film:** Before use, peel off any protective film from the display screen.
3. **Plug-in:** Insert the detector into a standard 110V-220V AC electrical outlet. The device is designed for plug-and-play operation.
4. **Initial Adaptation:** After plugging in, allow 180 seconds for the detector to adapt to its environment.
5. **Temperature/Humidity Calibration:** The unit may generate some heat after powering on. For more accurate humidity and temperature readings, wait approximately 30 minutes after initial plug-in.

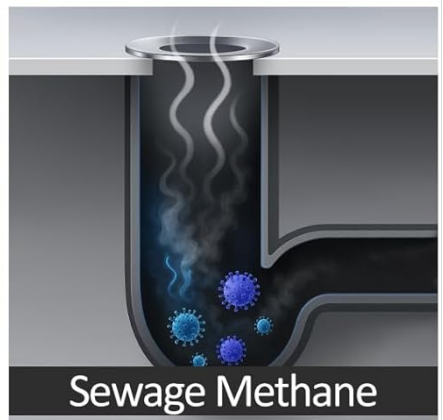
6. **Adjustable Plug:** The detector features replaceable plugs, allowing it to be adapted to different outlet types if needed (additional plugs may be sold separately). The screen can also flip 180 degrees for optimal viewing depending on outlet orientation.



Gas Stove



Water Heater



Sewage Methane

Image: A close-up view of the back of the Kalawen 4-in-1 detector, highlighting its plug mechanism. This image demonstrates how the plug can be adjusted or replaced to fit various outlet configurations, enhancing its versatility.

3. OPERATING INSTRUCTIONS

3.1. LCD Display Overview

The detector features a high-definition full-color LCD display that shows real-time data:

- **Carbon Monoxide (CO):** 0~999 PPM ($\pm 10\%$)
- **Combustible Gas (GAS):** Indicator Strip GAS Lv 1-4 (0-15% LEL)

- **Humidity:** 0%~95% RH ($\pm 5\%$)
- **Temperature:** $-10^{\circ}\text{C}\sim 50^{\circ}\text{C}$ ($\pm 1.5^{\circ}\text{C}$) / $14^{\circ}\text{F}\sim 122^{\circ}\text{F}$ ($\pm 2.7^{\circ}\text{F}$)
- Carbon Monoxide indicator icon and alarm status.



Household Hazardous Gas Detector

Keep Your Family Safe Around the Clock
 Helping Families Anticipate Danger Ahead of Time

Image: A detailed diagram of the Kalawen 4-in-1 detector, illustrating its various components and their functions. Key features such as the GAS Sensitivity, CO Unit (PPM), Alert Icon, Sound, CO Value, Temp Value, CO/GAS Indicator Light, Self-Test/ $^{\circ}\text{F}/^{\circ}\text{C}$ Switch, Adjust Brightness/Gas Sensitivity Switch, Sound On/Off/Flip Screen 180, Hum Value, GAS Level 1-4, Right Twist to Lock, Turn Left to Open, Disassembling Button, and Ventilation are clearly labeled.

3.2. Button Functions

The device has intuitive buttons for control:

- **Short Press (U button):** Self-Test / $^{\circ}\text{F}/^{\circ}\text{C}$ Switch (for temperature display).
- **Long Press (U button):** Adjust Brightness / Gas Sensitivity Switch.
- **Short Press (Bell icon button):** Sound On/Off.
- **Long Press (Bell icon button):** Flip the screen 180 degrees.

3.3. Recommended Placement

This plug-and-play detector is suitable for various locations:

- Home kitchens, bedrooms, home offices, basements, living rooms, storage rooms, game rooms, cellars.
- Offices, restaurants, hotels, RVs, and cruise ships.

Ensure it is plugged into a U.S. standard 110V-220V AC outlet.



Image: The Kalawen 4-in-1 detector is depicted in four different environments: a bedroom, a kitchen, an RV, and an office. This illustrates the device's versatility and suitability for monitoring air quality in diverse indoor and mobile settings.

4. ALARM SYSTEM

The detector features a dual alarm system with both audible and flashing light alerts.

- **Audible Alarm:** Emits a loud ≥ 85 dB alarm.

- **Visual Alarm:** Flashes a color light corresponding to the detected gas level.

Alarm thresholds:

- **Carbon Monoxide (CO):** ≥ 51 PPM
- **Combustible Gas:** $\geq 5\%$ LEL (Lower Explosive Limit)

The display provides clear indications of gas levels:



Image: The detector's screen is shown with a detailed legend explaining the different CO (Carbon Monoxide) and GAS (Combustible Gas) levels. It categorizes levels into "Good" (green indicator, no audible alarm), "Attention" (yellow-orange indicator blinking slowly, >85 dB audible alarm), "Warning" (orange indicator blinking fast, >85 dB audible alarm), and "Danger" (red indicator blinking fast, >85 dB audible alarm), providing clear visual cues for safety.

5. PRODUCT SPECIFICATIONS

Feature	Detail
Brand	Kalawen
Model Number	PTH-24E
Power Source	AC/Plug in (110V-220V)
Color	Black
Product Dimensions	2.16"D x 4.13"W x 2.04"H
Alarm Type	Audible and Visual (≥ 85 dB)
CO Detection Range	0~999 PPM ($\pm 10\%$)
Combustible Gas Detection	0-15% LEL (Levels 1-4)
Humidity Measurement	0%~95% RH ($\pm 5\%$)
Temperature Measurement	-10°C~50°C ($\pm 1.5^\circ\text{C}$) / 14°F~122°F ($\pm 2.7^\circ\text{F}$)
Display	High Definition Full Color LCD
Standby Power Consumption	$\leq 2\text{W}$
Batteries Required	No

6. MAINTENANCE

- **Regular Cleaning:** Keep the detector clean and free from dust. Use a soft, dry cloth to wipe the exterior. Do not use cleaning agents or solvents.
- **Ventilation:** Ensure the ventilation openings are not obstructed.
- **Self-Test:** Periodically perform a self-test using the designated button to confirm the alarm system is functioning correctly.
- **Avoid Extreme Conditions:** Do not expose the detector to extreme temperatures, high humidity, or direct water spray.

7. TROUBLESHOOTING

- **False Alarms / High Readings:**
 - If the detector gives high gas readings or false alarms, especially in cold temperatures, ensure the device has had sufficient time to adapt to the environment (180 seconds after plugging in) and stabilize its temperature (30 minutes for accurate readings).
 - Verify there are no actual gas leaks or sources of carbon monoxide in the vicinity.

- Consider the placement of the detector; avoid areas with high humidity, direct heat, or strong air currents that might affect sensor accuracy.

- **No Display / Device Not Powering On:**

- Check if the outlet is functioning correctly by plugging in another device.
- Ensure the detector is fully inserted into the outlet.

- **Alarm Sound Issues:**

- If the alarm is too quiet or not sounding, check if the sound has been muted using the "Sound On/Off" button.
- Perform a self-test to verify the alarm functionality.

8. WARRANTY AND SUPPORT

Kalawen is committed to providing high-quality products and services. While specific warranty details are not provided in this manual, for any questions or issues regarding your 4-in-1 Carbon Monoxide & Natural Gas Leak Detector, please contact Kalawen customer service. They are dedicated to assisting you promptly.

Please refer to the product packaging or the official Kalawen website for the most up-to-date warranty information and contact details.