MOES NA503F

MOES 4-in-1 Gas & Carbon Monoxide Detector (Model NA503F) Instruction Manual

Model: NA503F

1. IMPORTANT SAFETY INFORMATION

Read all instructions carefully before using this device. Failure to follow these instructions may result in product malfunction, property damage, or personal injury. Keep this manual for future reference.

- This device detects carbon monoxide (CO) and combustible gases (natural gas, propane, methane). It is not designed to detect smoke or other gases.
- Do not paint the device. Paint can clog the vents and interfere with sensor operation.
- Do not block the ventilation openings on the device.
- Test the alarm regularly as described in the "Operating Instructions" section.
- In case of an alarm, evacuate the premises immediately and contact emergency services.
- The device requires a standard AC power outlet to operate. Ensure the outlet is functioning correctly.

2. PRODUCT OVERVIEW

The MOES 4-in-1 Gas & Carbon Monoxide Detector is a plug-in device designed to monitor your environment for dangerous levels of carbon monoxide (CO) and combustible gases. It also provides real-time temperature and humidity readings. This device features a clear display and an audible alarm system to alert you to potential hazards.
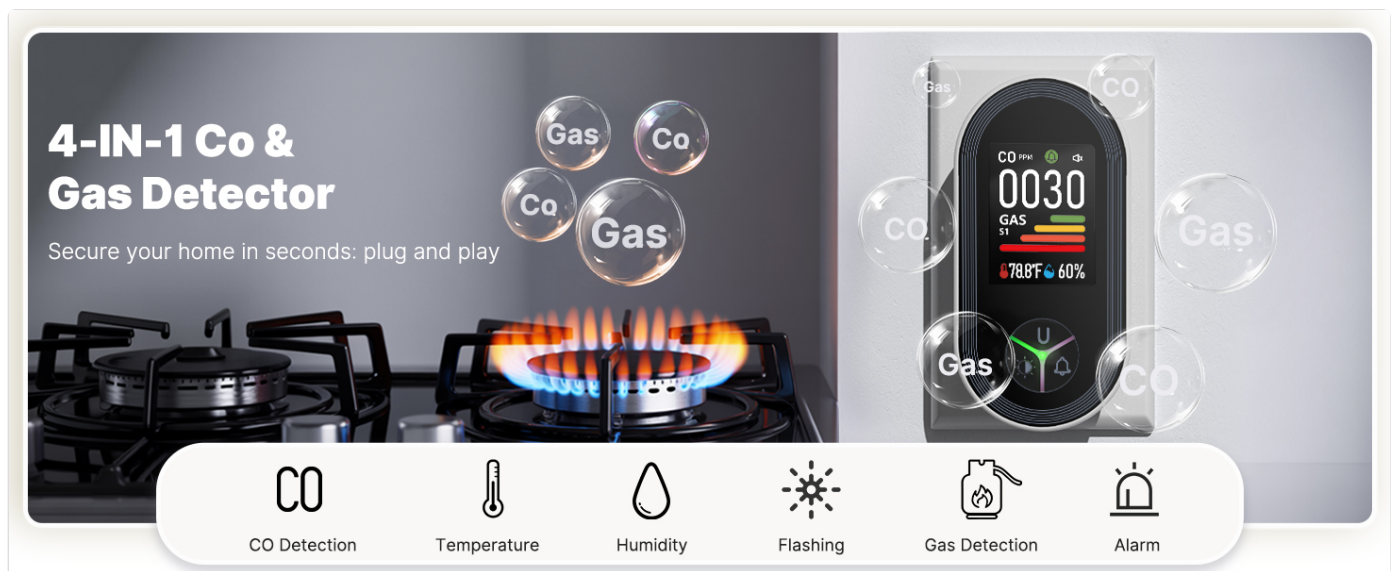
Image: Overview of the MOES 4-in-1 Gas & Carbon Monoxide Detector highlighting its multiple functions.

Key Features:

- **4-Stage Gas & CO Alerts:** Provides precise risk awareness with Green (Safe), Yellow (Caution), Orange (Warning), and Red (Danger) alert levels based on CO and gas concentrations.
- **Dynamic Alarm System:** Features an 85dB alarm that increases in sound and frequency as hazard levels rise, complemented by bright LED indicators.
- **Plug & Play Installation:** No wiring or complex setup required; simply plug into a standard electrical outlet.
- **Built-In Temperature & Humidity Monitoring:** Continuously displays indoor temperature (14°F–122°F) and humidity (0–95% RH).
- **Dual Sensor Protection:** Combines carbon monoxide and flammable gas (LPG/Natural Gas) sensors for comprehensive monitoring.
- **2-inch HD Color Screen Display:** Clearly visible display for all data.

3. SETUP AND INSTALLATION

The MOES 4-in-1 Detector is designed for easy, hassle-free installation.

1. **Unpack the Device:** Carefully remove the detector from its packaging.

2. **Choose a Location:**

   - Install in areas where CO or gas leaks are possible, such as kitchens, boiler rooms, near gas appliances, or fireplaces.
   - For CO detection, place the detector at a height where it can effectively detect CO, typically at eye level or higher, but not directly above heat sources.
   - For gas detection, if detecting natural gas (lighter than air), install near the ceiling. If detecting propane (heavier than air), install closer to the floor. For general protection, a mid-wall position is often suitable.
   - Avoid placing near windows, doors, or ventilation fans where drafts might interfere with readings.
   - Avoid placing in direct sunlight or areas with extreme temperature fluctuations.

3. **Plug In:** Simply plug the device into a standard 120V AC electrical outlet. The device will power on automatically.

4. **Initial Warm-up:** The device may undergo a brief warm-up period upon first power-up. During this time, the display may show a countdown or initialization sequence.

Image: The MOES detector plugged into a wall outlet, demonstrating its plug-and-play design.

Adjusting the Plug (if applicable):

The device features a disassembling button to adjust the plug orientation for different outlets.

1. Press the disassembling button located on the side of the device.

2. Twist the plug to the right or left to change its orientation.

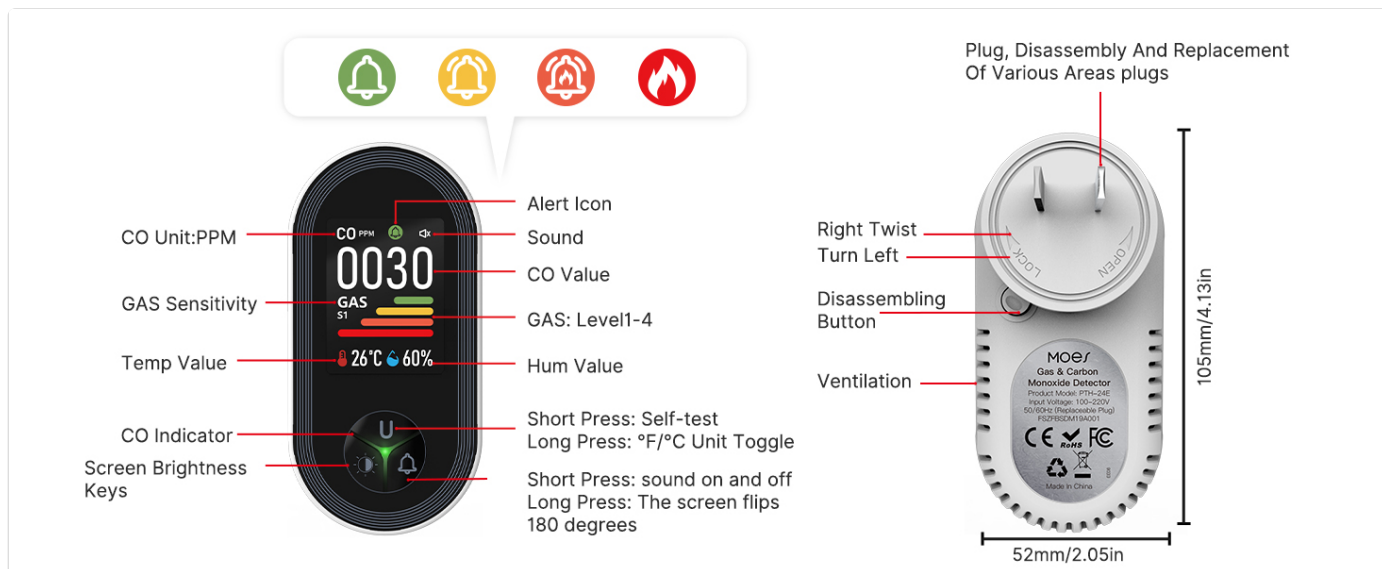3. Release the button to lock the plug in the desired position.

Image: Detailed diagram of the detector, showing the plug adjustment mechanism and various display indicators.

4. OPERATING INSTRUCTIONS

Display Information:

The 2-inch HD color screen displays real-time information:

- **CO Unit:** PPM (Parts Per Million)
- **CO Value:** Current Carbon Monoxide concentration.
- **GAS Sensitivity:** Indication of gas detection level (S1, S2, etc.).
- **GAS Level:** Current combustible gas concentration level.
- **Temp Value:** Real-time ambient temperature (in Celsius or Fahrenheit).
- **Hum Value:** Real-time ambient humidity (in % RH).
- **Alert Icon:** Visual indicator for alarm status.
- **Sound Icon:** Indicates alarm sound status.
- **CO Indicator:** Visual bar for CO levels.
- **Screen Brightness Keys:** Controls screen illumination.

2" HD Color Screen Display

All data is clearly visible

2 INCH

YES

Ours

100%

50%

0%

CO PPM

0030

GAS
S1

78.8°F 60%

CO PPM

0030

GAS
S1

78.8°F 60%

NO

Others

77°F

CO
GAS

122 PPM
%LEL

60 RH%

CO **0000** PPM

085 °F
TEMP

66 RH%
HUMI

442

Image: The clear 2-inch HD color screen display of the MOES detector, showing CO, Gas, Temperature, and Humidity readings.

Button Functions:

The device features a central button with multiple functions based on press duration.

- **Short Press (U button):** Initiates a self-test of the alarm system.

- **Long Press (U button):** Toggles the temperature unit between Celsius (℃) and Fahrenheit (℉).
- **Short Press (Bell icon):** Toggles the alarm sound on or off (mute/unmute).
- **Long Press (Bell icon):** Flips the screen display 180 degrees for flexible viewing orientation.
- **Screen Brightness Keys (Light icon):**

    - **First Gear:** 100% Brightness.
    - **Second Gear:** 50% Brightness.
    - **Third Gear:** 0% Brightness (Screen is off, breathing light is turned off).
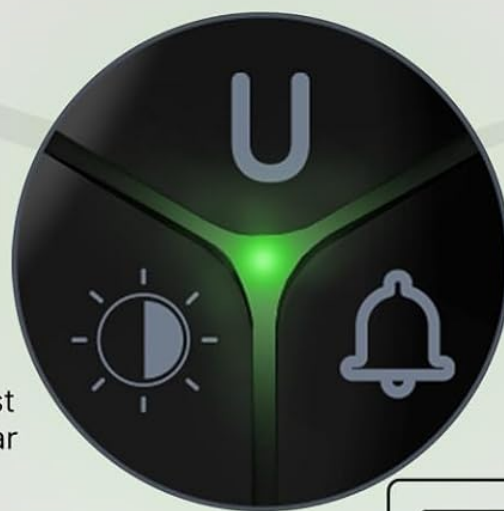
Key Functions

Long Press:
Switching Temperature Unit

🌡 **26°C** ⬅➡ 🌡 **78.8°F**
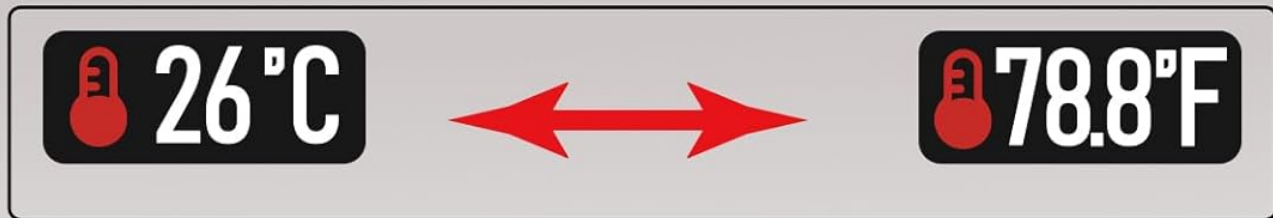
Degree Celsius   Fahrenheit

Short Press: Self-test

U

Screen Brightness Keys

| CO PPM |
| **0030** |
| GAS S1 |
| 78.8°F 60% |

100% Brightness → **First Gear**
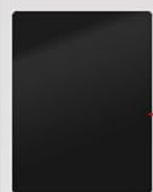
Long Press:
The Screen Flips 180 Degrees

| CO PPM |
| **0030** |
| GAS S1 |
| 78.8°F 60% |

50% Brightness → **Second Gear**

Three Gears

0% Brightness ⬅ | ➡ The Breathing Light is Turned off

| CO PPM |
| **0030** |
| GAS S1 |
| 78.8°F 60% |

↔

| %09 78.8°F |
| GAS S1 |
| **0030** |
| CO PPM |

Short Press
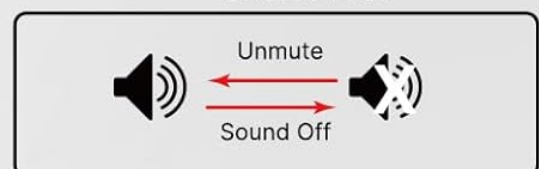
🔊 ⬅ Unmute
🔊 ➡ Sound Off

Image: Explanation of button functions, including short and long presses for various settings.

Screen Inversion

180° Flip for Flexible Use

U

👆 Long Press:

The Screen Flips 180 Degrees

Image: Demonstration of the screen inversion feature, allowing the display to be flipped 180 degrees.

Alert Levels and Alarm Behavior:

The detector provides four distinct alert levels, each with specific CO and gas concentration thresholds, visual indicators, and alarm responses.

Level	CO Concentration	Gas Concentration	Visual Indicator	Audible Alarm
Green (Safe)	< 50ppm	< 5% LEL (Lower Explosive Limit)	Green indicator light	No audible alarm
Yellow (Caution)	51–100ppm	5–8% LEL	Yellow indicator light flashes	Slowly audible alarm
Orange (Warning)	101–150ppm	8–15% LEL	Orange indicator light flashes	Fast audible alarm
Red (Danger)	150–999ppm	>15% LEL	Red indicator light flashes	Very fast audible alarm

High-Precision Sensor-Rapid Response

Rapid Response for superior home protection

Good
CO:0~50PPM
GAS:Lv1<5% LEL
Green indicator light
No audible alarm

Attention
CO:51~100PPM
GAS:5%<Lv2<8% LEL
Yellow indicator light flashes
Slowly audible alarm

Warning
CO:101~150PPM
Gas:8%<LV3<15%LEL
Orange indicator light flash-
es

Danger
CO:150~999PPM
Gas:Lv4>15%LEL
Red indicator light flashes
Fast audible alarm

Electrochemical Sensor

Catalytic Combustion Sensor

Image: Visual representation of the four alert stages for CO and gas detection.

4 levels of visual & audible alarms

CO 101~150PPM
Gas 8%≤Lv3＜15% LFL
Orange indicator light flashes
Fast audible alarm

Danger

CO 150~999PPM
Gas Lv4≥15%LFL
Red indicator light flashes Fast
audible alarm

Warning

Good

CO 51~100PPM
Gas 5%＜Lv2＜8% LFL
Yellow indicator light flashes Slowly audible
alarm

Attention

CO 0~50PPM
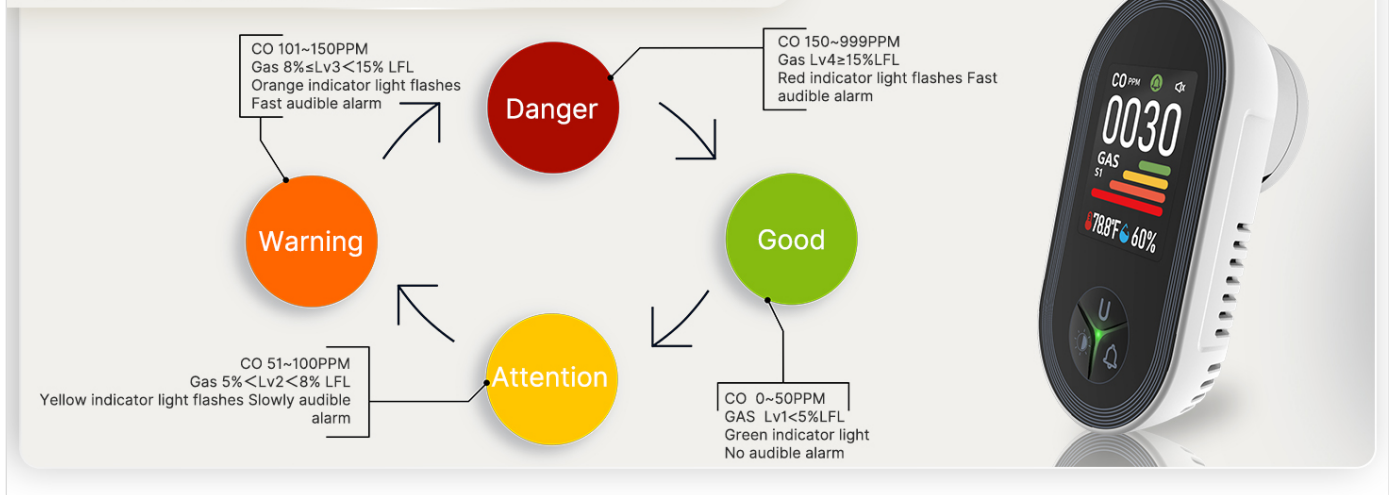GAS Lv1<5%LFL
Green indicator light
No audible alarm

Image: Flowchart detailing the four levels of visual and audible alarms.

5. USAGE SCENARIOS

The MOES 4-in-1 Detector is suitable for various indoor environments where carbon monoxide or combustible gases may be present.

- **Fireplace Areas:** To detect CO from burning wood or other fuels.
- **Kitchens:** To detect natural gas or propane leaks from stoves and ovens.
- **Garages:** To monitor for CO from vehicle exhaust.
- **Boiler Rooms/Utility Rooms:** Near water heaters, furnaces, or other gas-powered appliances.
- **RV/Camping:** For portable protection in recreational vehicles (ensure proper power supply).
- **Smoking Areas:** While the device is not a smoke detector, it can detect some byproducts of combustion.

Real-Time Gas & CO Dector

360° protection of your family from dangerous CO and gas.

Image: The detector monitoring for gas near a stove and for CO near a fireplace.

Usage Scenarios

01 Fireplace

02 Smoking

03 Garage

04 Kitchen

Image: Examples of suitable locations for the detector, including kitchens, fireplaces, and garages.

Image: A broader view of potential installation sites for comprehensive safety.

6. MAINTENANCE

Regular maintenance ensures the optimal performance and longevity of your MOES detector.

- **Monthly Test:** Perform a self-test at least once a month by short-pressing the 'U' button. The alarm should sound, and indicators should light up.
- **Cleaning:** Gently wipe the exterior of the detector with a soft, damp cloth. Do not use cleaning agents, solvents, or abrasive materials. Ensure the ventilation openings are free from dust and debris.
- **Avoid Obstruction:** Ensure that nothing is blocking the sensor openings or the alarm speaker.
- **Power Supply:** Ensure the device remains continuously plugged into a functioning power outlet.

7. TROUBLESHOOTING

If you encounter issues with your MOES detector, refer to the following common troubleshooting steps:

- **Alarm Sounds Without Apparent Hazard:**

    - **False Alarm:** Ensure there are no temporary sources of CO (e.g., car exhaust from an attached garage, fireplace smoke) or gas (e.g., pilot light issues, strong cleaning fumes) that could trigger the sensor.
    - **Sensor Contamination:** Strong chemicals, paint fumes, or excessive dust can sometimes trigger the alarm. Ventilate the area.
    - **Relocate:** If false alarms persist, try relocating the detector to a different area.

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

    - **Check Power Outlet:** Ensure the outlet is live and functioning. Test with another appliance.
    - **Re-plug Device:** Unplug and re-plug the detector firmly into the outlet.
    - **Screen Brightness:** Check if the screen brightness is set to 0% (off). Adjust using the brightness keys.

- **Inaccurate Temperature/Humidity Readings:**

    - **Environmental Factors:** Ensure the detector is not in direct sunlight, near heat sources, or in an area with high airflow that could affect readings.
    - **Calibration:** While the device is factory calibrated, significant discrepancies might indicate a sensor issue.

- **Self-Test Fails:** If the alarm does not sound during a self-test, the device may be faulty. Do not rely on a faulty

detector; replace it immediately.

If issues persist after attempting these steps, contact MOES customer support for further assistance.

8. SPECIFICATIONS

Feature	Detail
Model Number	NA503F
Detection Gases	Carbon Monoxide (CO), Combustible Gases (Natural Gas, Propane, Methane)
Power Source	AC (Plug-in)
Alarm Loudness	85dB
Temperature Range	14°F–122°F (-10°C–50°C)
Humidity Range	0–95% RH (non-condensing)
Item Weight	3.42 ounces (97 Grams)
Package Dimensions	4.49 x 4.25 x 2.24 inches
Manufacturer	WENZHOU NOVA NEW ENERGY CO.,LTD

9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation included with your purchase or visit the official MOES website. Keep your purchase receipt as proof of purchase.
MOES Customer Support: Visit the MOES Store on Amazon