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› Mulcort ANENG GN805 Combustible Gas Leak Detector User Manual

Mulcort GN805

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1. INTRODUCTION

The Mulcort ANENG GN805 is a portable combustible gas leak detector designed to quickly and reliably identify the presence of various flammable gases. This device utilizes a gas-sensitive semiconductor sensor to provide visual and audible alarms, helping to ensure safety in residential, commercial, and industrial environments. Its compact, pen-type design makes it convenient for carrying and use in diverse settings.





Figure 1: ANENG GN805 Combustible Gas Leak Detector, showcasing its pen-type design and LCD screen.

2. SAFETY INFORMATION

Warning:

- This instrument is not a safety device. It is only suitable for use as a monitoring instrument.
- The instrument must only be used for the purposes specified in this manual and within the technical parameters.
- In case of damage, malfunction, or incorrect display, have the instrument inspected. Do not use faulty equipment.
- Do not use on or come into contact with live electrical equipment.
- Do not use the instrument in an environment with relative humidity exceeding 80% (condensation).
- Store the instrument at the specified storage temperature and humidity range.

- Do not use in confined spaces where space gases may accumulate into explosive mixtures.
- Do not exceed the flammable gas concentration in the space or exceed the explosion limit.
- Before detecting unknown gases, use known gases to test the instrument to ensure it is working properly.
- Avoid using the detector in polluted gas or making excessive efforts to detect, as this may cause detection errors.
- Prevent the sensor from coming into contact with moisture or acidic gas, as this may damage it.

3. PRODUCT OVERVIEW

3.1 Key Features

- **Wide Gas Detection:** Suitable for acetone, acetylene, alcohol, ammonia, benzene, ethanol, epoxy acetylene, gasoline, hexane, hydrogen, methane, liquefied petroleum gas (LPG), natural gas, paint thinner, propane, and various solvents.
- **Visual & Audio Alarm:** Features a red LED light and buzzer. The alarm intensity increases with higher combustible gas concentrations.
- **Adjustable Sensitivity:** Allows users to switch between high and low sensitivity modes to adapt to different environments.
- **Large LCD Display:** Backlit screen shows combustible gas concentration, temperature (°C/°F), and a low power prompt.
- **Automatic Shutdown:** Powers off automatically after 4 minutes of no operation or gas detection to conserve battery life.
- **Compact & Portable:** Pen-type design for easy carrying in a pocket or toolbox.

3.2 Components

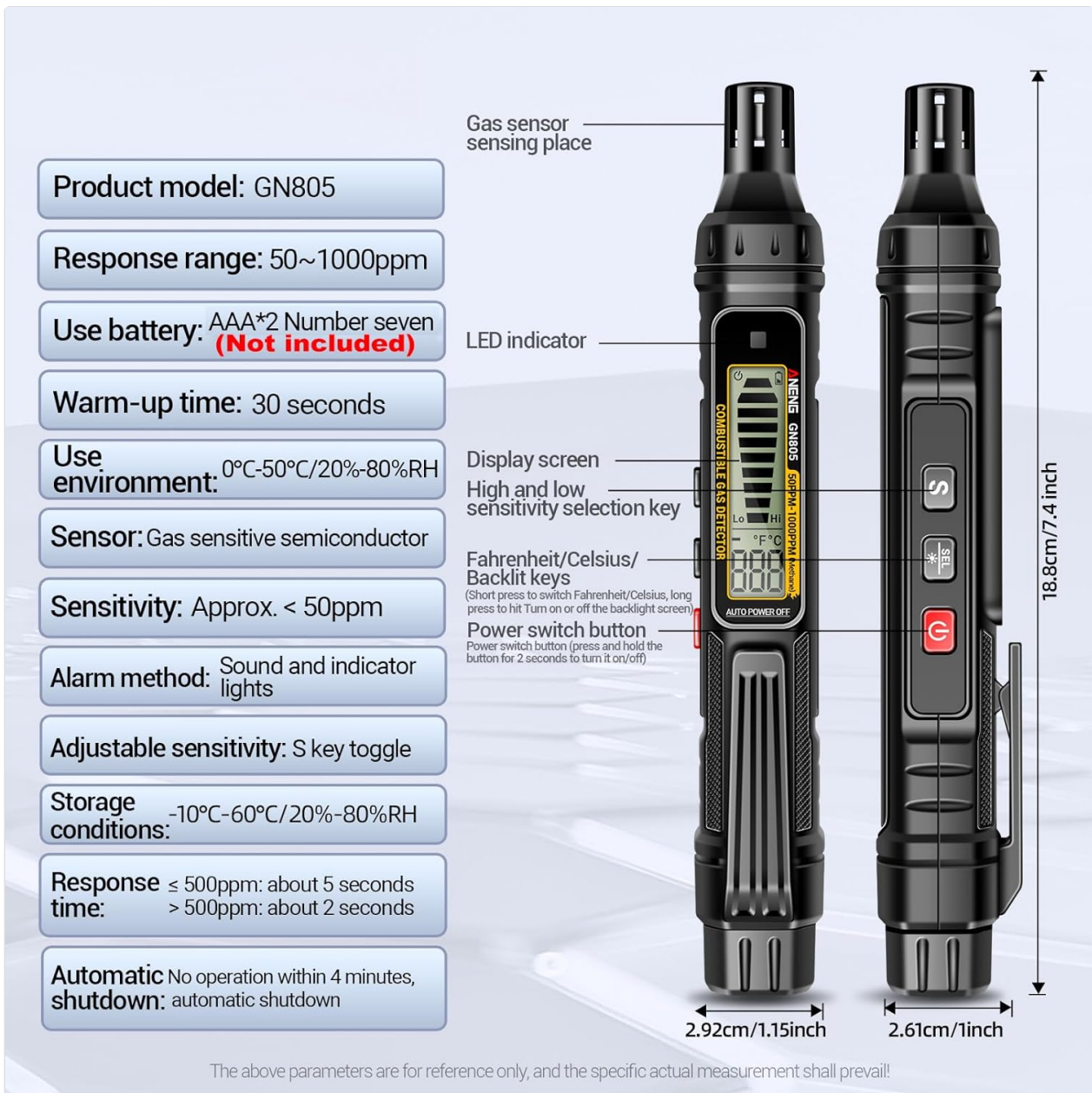


Figure 2: Comprehensive diagram of the ANENG GN805, labeling key components and dimensions.

1. Gas Sensor Sensing Place
2. LED Indicator
3. Display Screen
4. High and Low Sensitivity Selection Key (S button)
5. Fahrenheit/Celsius / Backlight Keys (SEL button)
6. Power Switch Button

4. SETUP

4.1 Battery Installation

The ANENG GN805 requires two 1.5V AAA batteries (not included). Follow these steps for proper installation:

Battery installation


 The symbol indicates that the battery needs to be replaced. The battery installation is operated as shown in the figure.



Figure 3: Step-by-step guide for installing two AAA batteries into the ANENG GN805.

- 1. Open the Battery Cover:** Use a screwdriver to unscrew the battery cover located on the back of the device.
- 2. Load Batteries:** Insert two 1.5V AAA batteries, ensuring correct polarity. The springs at both ends are designed to protect the battery.
- 3. Close the Battery Cover:** Replace the battery cover and secure it with the screw.

A low power prompt will appear on the LCD display when the batteries need replacement.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

- To Power On:** Press the red power switch button (labeled with a power symbol) briefly. The device will begin a 30-second warm-up period.
- To Power Off:** Press and hold the red power switch button for approximately 2 seconds until the screen turns off. The device will also automatically shut down after 4 minutes of no operation or gas detection.

5.2 Warm-up and Readiness

After powering on, the detector requires a 30-second warm-up time. During this period, the device prepares its sensor for accurate detection. Wait for the warm-up to complete before beginning gas detection.

5.3 Sensitivity Adjustment

The ANENG GN805 features adjustable sensitivity to suit different detection needs.



Figure 4: The 'S' button allows switching between high and low sensitivity modes.

- Press the 'S' key (Sensitivity Selection Key) to toggle between high and low sensitivity modes.
- Use **High Sensitivity** for detecting very small leaks or for general scanning.
- Use **Low Sensitivity** for pinpointing larger leaks or in environments where background gas levels might cause nuisance alarms on high sensitivity.

5.4 Gas Detection Process

To detect gas leaks:

1. Ensure the device has completed its warm-up period.
2. Move the sensor tip slowly towards the suspected leak area.
3. Observe the LCD display for gas concentration readings and listen for audible alarms.



Figure 5: The ANENG GN805 detecting a gasoline leak, showing visual and audible alarm indicators.

5.5 Alarm Methods

The detector uses both visual and audible alarms:

- **Visual Alarm:** A red LED light will flash. The flashing rate increases with higher gas concentrations. The LCD display will also show a bar prompt indicating concentration levels.
- **Audible Alarm:** A buzzer will sound. The urgency and frequency of the beeping increase as the detected combustible gas concentration rises.

5.6 Detectable Gases

The ANENG GN805 is capable of detecting a wide range of combustible gases, including but not limited to:

Multiple detectable



Figure 6: Infographic displaying various combustible gases detectable by the ANENG GN805.

- Acetone
- Acetylene
- Alcohol (Ethanol)
- Ammonia
- Benzene
- Epoxy Acetylene
- Gasoline
- Hexane
- Hydrogen
- Methane (Natural Gas)
- LPG (Liquefied Petroleum Gas)
- Paint Thinner
- Propane
- Solvents

6. MAINTENANCE

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** Replace batteries promptly when the low power indicator appears to ensure accurate operation.
- **Storage:** Store the detector in a cool, dry place, away from direct sunlight and extreme temperatures, within the specified storage conditions.
- **Sensor Care:** Avoid exposing the sensor to moisture, acidic gases, or heavy dust, as this can impair its function or cause damage.

7. TROUBLESHOOTING

- **Device Not Powering On:** Check battery installation and ensure batteries are fresh.
- **Inaccurate Readings/False Alarms:** Ensure the sensor is clean. Try adjusting the sensitivity setting. Avoid using in highly polluted environments or near strong odors that are not combustible gases.
- **No Alarm for Suspected Leak:** Ensure the device has completed its warm-up. Check sensitivity setting (try high sensitivity). Ensure the sensor tip is close to the leak source.
- **Screen Not Displaying:** Check battery level. If the issue persists after battery replacement, the device may require inspection.

If problems persist, refer to the warranty and support information or contact customer service.

8. SPECIFICATIONS

Specification	Detail
Model	GN805
Material	ABS
Sensor Type	Gas sensitive semiconductor
Response Range	50~1000ppm (methane)
Sensitivity	Approx. <50ppm
Adjustable Sensitivity	S key toggle
Warm-up Time	30 seconds
Response Time	≤500ppm: about 5 seconds; > 500ppm: about 2 seconds
Alarm Method	Sound and indicator light
Use Environment	0°C~50°C / 20%~80%RH
Storage Conditions	-10°C~60°C / 20%~80%RH
Battery	2 * 1.5V AAA batteries (Not included)
Automatic Shutdown	No operation within 4 minutes
Item Size	180.8 * 26.1 * 29.2mm / 7.12 * 1.02 * 1.15in
Item Weight	57.7g / 2.03oz
Manufacturer	Mulcort
Part Number	E26263

9. WARRANTY AND SUPPORT

Specific warranty information for the Mulcort ANENG GN805 Combustible Gas Leak Detector is not provided in this manual. Please refer to the product packaging or contact your retailer for details regarding warranty coverage and customer support.