

## Naroot HT601A

# Naroot HT601A Portable Flammable Gas Leak Detector Instruction Manual

Model: HT601A | Brand: Naroot

## 1. INTRODUCTION

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This instruction manual provides detailed information on the proper use, setup, operation, maintenance, and troubleshooting for the Naroot HT601A Portable Flammable Gas Leak Detector. Please read this manual thoroughly before operating the device to ensure safe and effective use.

### **Safety Warning:**

- Always operate the device in well-ventilated areas.
- Do not expose the device to extreme temperatures or humidity.
- Keep out of reach of children.
- This device is designed to detect flammable gases. It is not a substitute for proper safety procedures or professional gas detection equipment in critical industrial applications.

## 2. PACKAGE CONTENTS

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Upon opening the package, please verify that all items listed below are present and in good condition:

- 1 x Naroot HT601A Gas Detector (Batteries Not Included)
- 1 x Instruction Manual
- 1 x Storage Bag



Image 2.1: The included black storage bag for the gas detector, designed for portability and protection.

### 3. PRODUCT FEATURES

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The Naroot HT601A Gas Leak Detector offers the following key features:

- **Portable Design:** Compact size and light weight for easy carrying and operation.
- **Accurate Detection:** A 40cm/15.7in long flexible probe allows access to hard-to-reach areas for precise detection.
- **LED Display:** An LED analog bar display provides clear and easy-to-understand detection results.
- **User-Friendly Operation:** Features automatic reset, eliminating the need for manual resetting, which simplifies operation.

- **Versatile Application:** Suitable for use in various household environments such as kitchens, bathrooms, and other areas where flammable gas leaks may occur.

Flexible Probe: About  
40cm/15.7in



Image 3.1: The Naroote HT601A detector highlighting its 40cm (15.7 inch) flexible probe, designed to reach confined spaces for gas detection.

#### 4. COMPONENT IDENTIFICATION

Familiarize yourself with the main components of the HT601A Gas Leak Detector:



Image 4.1: Overview of the Narrote HT601A Gas Leak Detector, showing the main unit, flexible probe, and LED display.

- **Flexible Probe:** The long, bendable arm extending from the main unit, used to direct the sensor to potential leak sources.
- **Sensor Tip:** Located at the end of the flexible probe, this is the component responsible for detecting gas.
- **LED Analog Bar Display:** The screen on the main unit that visually indicates gas concentration levels.
- **Control Buttons:**
  - **Power Button:** Used to turn the device on and off.
  - **Lo/Mid/Hi Buttons:** Adjust the detection sensitivity level.
  - **APO Button:** Likely for Automatic Power Off settings (refer to specific operating instructions).
  - **Speaker Icon Button:** Controls the audible alarm.



Image 4.2: A detailed view of the gas sensor tip, which is crucial for accurate gas detection.



Image 4.3: A close-up of the device's control panel, showing the power button, sensitivity settings (Lo, Mid, Hi), APO button, and speaker icon button.

## 5. SETUP

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### 5.1 Battery Installation

1. Locate the battery compartment cover on the back of the device.
2. Slide or unclip the cover to open the compartment.
3. Insert 3 x AAA batteries (not included) according to the polarity indicators (+/-) inside the compartment.
4. Replace the battery compartment cover, ensuring it is securely closed.

### 5.2 Initial Power-On

After installing batteries, the device is ready for initial power-on.

## 6. OPERATING INSTRUCTIONS

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### 6.1 Powering On/Off

- **To Power On:** Press and hold the red power button ( ) until the device powers on and the display

illuminates.

- **Warm-up Time:** The device will display "WAIT..." and undergo a warm-up period of approximately 30 seconds. During this time, avoid exposing the sensor to gas.
- **To Power Off:** Press and hold the red power button ( ) again until the device shuts down.

## 6.2 Gas Detection Process

1. Once the warm-up is complete, the device is ready for detection.
2. Direct the flexible probe's sensor tip towards the area where a gas leak is suspected.
3. Slowly move the sensor tip around the suspected area.
4. Observe the LED analog bar display and listen for the audible alarm.



Image 6.1: The Naroote HT601A in operation, demonstrating its use in detecting gas leaks in a complex environment.

## 6.3 Interpreting the Display and Alarms

- **LED Analog Bar:** The illuminated segments on the LED bar indicate the concentration level of detected gas. More segments lit up signify a higher concentration.
- **Audible Alarm:** The device will emit an audible alarm when gas is detected, with the frequency or intensity increasing with higher gas concentrations.
- **Visual Alarm:** The LED display also serves as a visual alarm, complementing the audible alert.



## LED analog bar display

40cm/15.7in long flexible probe helps you reaching more area.

Image 6.2: The LED analog bar display showing the 'WAIT...' message during the device's warm-up phase, indicating it is preparing for detection.

### 6.4 Sensitivity Adjustment

Use the 'Lo', 'Mid', and 'Hi' buttons to adjust the detection sensitivity according to your needs. 'Hi' provides the highest sensitivity for detecting small leaks, while 'Lo' is for larger concentrations or less sensitive detection.

### 6.5 Automatic Reset

The HT601A features an automatic reset function, which means the device will automatically recalibrate or clear its alarm state once the gas concentration returns to a safe level, without requiring manual intervention.



## Automatic reset

Compact size, light weight, easy to carry and operate.

No need to reset manually, the operation is more convenient and simple.

Image 6.3: The Naroot HT601A detector, illustrating its automatic reset capability for convenient operation.

### 6.6 Automatic Shutdown

The device is equipped with an automatic shutdown feature (indicated by √ in specifications) to conserve battery life. Refer to the specifications for the exact duration before automatic shutdown.

## 7. MAINTENANCE

### 7.1 Cleaning

- Wipe the exterior of the device with a soft, dry cloth.
- Do not use abrasive cleaners or solvents, as they may damage the casing or internal components.
- Keep the sensor tip clean and free from dust or debris to ensure accurate readings.

### 7.2 Storage

- When not in use, store the gas detector in its provided storage bag to protect it from dust and physical damage.
- Store in a cool, dry place, away from direct sunlight and extreme temperatures.
- Remove batteries if the device will not be used for an extended period to prevent leakage.

## 7.3 Battery Replacement

When the battery undervoltage indication appears on the display, replace the 3 x AAA batteries following the installation steps in Section 5.1.

## 8. TROUBLESHOOTING

If you encounter issues with your Naroote HT601A, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not power on	Dead or incorrectly installed batteries	Replace batteries with new ones, ensuring correct polarity.
No gas detection or inconsistent readings	Sensor not properly positioned, warm-up not complete, or sensor tip is dirty	Ensure warm-up is complete. Position sensor tip directly at the suspected leak source. Clean the sensor tip if necessary.
False alarms	Interference from other substances or high background gas levels	Ensure the detection area is clear of other potential gas sources. Adjust sensitivity to a lower setting if appropriate for the environment.
Audible alarm not working	Alarm muted or device malfunction	Check if the speaker icon button has been pressed to mute the alarm. If not, contact support.

## 9. SPECIFICATIONS

The technical specifications for the Naroote HT601A Gas Leak Detector are as follows:

Specification	Detail
Model	HT601A
Detection Gas	Flammable gas (e.g., methane)
Range	>50PPM
Sensitivity	>50ppm (methane)
Response Time	<2 seconds
Warm-up Time	Approx. 30 seconds
Display	LED Analog Bar
Alarm Mode	Visual, Sound
Automatic/Manual Reset	Automatic reset
Automatic Shutdown	Yes
Battery Undervoltage Indication	Yes
Flexible Probe Length	About 40cm / 15.7in

Specification	Detail
Power Supply	3 x AAA batteries (Not included)
Item Weight	13.6 ounces
Package Dimensions	11.02 x 4.72 x 1.97 inches
Sensor Type (as listed in product data)	Carbon Monoxide Sensor (Note: Primary detection is for flammable gas/methane as per description)

## 10. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided with your purchase or contact the seller/manufacturer directly. Keep your purchase receipt as proof of purchase.