

Neoteck CGD903A

Neoteck Portable Gas Leak Detector with 10cm Probe

Model: CGD903A

1. INTRODUCTION

The Neoteck Portable Gas Leak Detector is designed for the rapid and accurate detection of various combustible gases. Equipped with a high-precision sensor and a flexible 10cm probe, it can identify gas leaks in hard-to-reach areas. This device offers dual sensitivity modes and provides both acoustic and visual alarms to ensure safety in domestic and professional environments.

2. PRODUCT OVERVIEW

2.1 Components

- 1 × Gas Leak Detector
- 3 × AAA Batteries
- 1 × Protective Case
- 1 × User Manual

2.2 Key Features

- **Ultra-Sensitive and Rapid Detection:** High-precision sensor detects methane concentrations as low as 50ppm in under 2 seconds. The flexible 10cm probe allows access to confined spaces like boilers, behind stoves, or gas connections.
- **Dual Adjustable Sensitivity:** Two sensitivity ranges (50-500ppm for routine checks and 500-3000ppm for significant leaks) offer versatile use. The LCD display changes color from green to red based on gas concentration, indicating risk levels.
- **Comprehensive Gas Detection:** Capable of identifying over 12 combustible gases, including methane, LPG, propane, butane, and natural gas.
- **Acoustic and Visual Alarm:** Features a combined alarm system with an increasing acoustic signal and a visual warning on the display for enhanced safety.
- **Ergonomic Design and Optimized Battery Life:** Compact, pocket-sized design with an integrated

clip for portability. Intelligent power management provides up to 10 hours of battery life and automatic shutdown after 5 minutes of inactivity.

- **Ready to Use, Zero Maintenance:** Includes 2 AAA batteries for immediate operation. A battery level indicator signals when replacement is needed. The robust design requires minimal maintenance.

3. SETUP

3.1 Battery Installation

1. Locate the battery compartment on the device.
2. Insert the 3 AAA batteries, ensuring correct polarity (+/-).
3. Close the battery compartment securely.

3.2 Initial Power-On and Warm-up

1. Press the power button to turn on the detector.
2. After powering on, the device will enter a warm-up phase. Wait for approximately 30 seconds.
3. A "Beep" sound will indicate the completion of the warm-up phase, and the device will be ready for use.

Facile da Usare, con Allarme Visivo e Acustico



Passo 1: Accendi il Rilevatore



Passo 2: Riscaldamento per **30 Secondi**



Passo 3: Seleziona la Modalità di Rilevamento



Passo 4: Inizia il Rilevamento

Image: Steps for using the Neoteck Gas Leak Detector, including power-on, warm-up, mode selection, and detection

4. OPERATION

4.1 Powering On/Off

- Press the power button (usually marked with a power symbol) to turn the device ON.
- To turn OFF, press and hold the power button until the display shuts down. The device also features an automatic shutdown function after 5 minutes of inactivity to conserve battery.

4.2 Sensitivity Adjustment

The detector offers two sensitivity levels for precise measurements:

- **Low Sensitivity Mode (500-3000 ppm):** Ideal for identifying the general area or range of a gas leak.
- **High Sensitivity Mode (50-500 ppm):** Used for pinpointing the exact source of a gas leak.

Use the "S" button on the device to switch between high and low sensitivity modes. The selected mode will be indicated on the LCD display.

Modalità Bassa Sensibilità: 500-3.000 ppm

Individua la Fascia di Perdita di Gas

Modalità Alta Sensibilità: 50-500 ppm

Individua il Punto Esatto della Perdita



Accuratezza:
 $\leq 10\% \text{ FS}$ (Metano)



Sensibilità:
 $< 50 \text{ ppm}$ (Metano)



Tempo di Risposta
 $0.5s$



Sensore ad Alta Precisione

Chipset ad Alte Prestazioni

4.3 Detection Process

1. After warm-up, position the flexible probe near the suspected area of a gas leak.
2. Slowly move the probe along pipes, connections, or appliances where a leak might occur.
3. Observe the LCD display and listen for the acoustic alarm.

4.4 Interpreting Alarms

- **Visual Alarm:** The LCD display will change color (e.g., from green to red) and show increasing bars or values as the gas concentration rises.
- **Acoustic Alarm:** An audible alarm will sound, increasing in frequency and intensity with higher gas concentrations.

In case of a gas detection, immediately follow safety protocols for gas leaks, such as ventilating the area, turning off gas sources, and contacting a qualified professional.



Image: Neoteck Gas Leak Detector in use, showing LCD display with high gas reading.

5. MAINTENANCE

5.1 Battery Replacement

When the battery level indicator on the LCD display shows low power, replace the batteries promptly to ensure accurate operation. Refer to section 3.1 for battery installation instructions.

5.2 General Care

- Keep the device clean and free from dust and debris.
- Avoid exposing the detector to extreme temperatures or humidity.
- Store the device in its protective case when not in use to prevent damage.
- The robust design requires zero maintenance for the sensor or internal components.

6. TROUBLESHOOTING

If the device does not function as expected, consider the following:

- **No Power/Device Not Turning On:** Check if the batteries are correctly installed and have sufficient charge. Replace batteries if necessary.
- **Inaccurate Readings:** Ensure the device has completed its 30-second warm-up phase. Avoid using the detector in areas with strong air currents or extreme temperatures, which can affect readings.
- **No Alarm During Suspected Leak:** Verify that the sensitivity mode is appropriate for the detection task (High Sensitivity for pinpointing small leaks).
- **Device Malfunction:** If issues persist after checking the above, contact Neoteck customer support for assistance.

7. SPECIFICATIONS

Feature	Specification
Brand	Neoteck
Model Number	CGD903A
Probe Length	10cm
Sensitivity Range (Low)	500-3000 ppm
Sensitivity Range (High)	50-500 ppm
Response Time	< 2 seconds
Detected Gases	Methane, Propane, LPG, Natural Gas, Butane, Ethane, Coal Gas, Gaseous Fuel, Liquefied Natural Gas, etc.
Power Source	3 × AAA Batteries
Battery Life	Up to 10 hours
Automatic Shutdown	After 5 minutes of inactivity
Product Dimensions	2P x 11l x 20H cm (approx.)

Item Weight	140 Grams
Country of Origin	China

8. WARRANTY AND SUPPORT

For warranty information, technical support, or any inquiries regarding your Neoteck Portable Gas Leak Detector, please refer to the contact details provided in the packaging or visit the official Neoteck website. Keep your purchase receipt for warranty claims.