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CHNADKS ADKS-1

CHNADKS Portable Gas Leak Detector ADKS-1 Instruction Manual

Overview	Features	Package Contents	Device Components	Setup	Operation	Maintenance
				Warranty & Support		
		Safety Information	Specifications			

1. OVERVIEW

The CHNADKS Portable Gas Leak Detector (Model ADKS-1) is designed for accurate and reliable detection of various combustible gases. Equipped with an 11-inch flexible gooseneck probe and an imported sensor, it provides real-time monitoring with visual, audible, and vibration alarms. This device is suitable for a wide range of applications, including home safety, industrial inspections, and vehicle maintenance, ensuring a safer environment by promptly identifying gas leaks.



Image: The CHNADKS Gas Leak Detector being used to inspect industrial piping for gas leaks.

2. PRODUCT FEATURES

- **Accurate Gas Detection:** Features an 11-inch flexible gooseneck tube and an imported sensor with a lifespan of up to 2 years. Detects explosive gases like methane, natural gas, propane, and alcohol within a range of 0-10000ppm (based on methane).
- **Easy to Use:** Offers two sensitivity levels (high: 2000-10000ppm and low: 500-2000ppm). Includes auto-zeroing function and a manual zeroing button. The modern design and user-friendly HD LCD display provide clear readings.
- **Durable and Reliable:** Compact size (200*70*25mm) and lightweight (0.5kg). Equipped with a 2000mAh rechargeable lithium battery offering up to 12 hours of standby time. Multiple explosion-proof signs ensure safety in various environments.
- **Versatile Applications:** Ideal for gas inspection, car maintenance, gas station inspections, natural gas vehicles, and home inspections. Suitable for inspectors, technicians, engineers, and personal use.
- **Triple Alarm System:** Provides light, sound, and vibration indicators for real-time leak detection, ensuring immediate alerts.

- **Affordable and Eco-friendly:** Features a low battery indicator and efficient power consumption, making it both economical and environmentally conscious.



Image: The gas leak detector highlighting its IP65 protection class, indicating waterproof, explosion-proof, and dustproof capabilities.

3. PACKAGE CONTENTS

Upon opening your CHNADKS Portable Gas Leak Detector package, please verify that all the following items are included:

- Gas Detector (ADKS-1)
- Carrying case
- Charger
- Instruction Manual
- Fixing clip



Image: All items included in the CHNADKS Gas Leak Detector package.

4. DEVICE COMPONENTS

Familiarize yourself with the key components of your ADKS-1 Gas Leak Detector:

- **Gooseneck Tube:** An 11-inch flexible probe for reaching confined spaces.
- **Sensor:** Located at the tip of the gooseneck, responsible for gas detection.
- **LCD Screen:** High-definition display for showing gas concentration readings and device status.
- **Charging Port:** For connecting the charger to recharge the internal battery.
- **Up Button:** Used for navigation and adjusting settings.
- **Switch Key (Power Button):** Used to power the device on/off and access menus.
- **Down Button:** Used for navigation and adjusting settings.
- **Alarm Indicator:** A light that flashes when a gas leak is detected.
- **Buzzer:** Emits an audible alarm during gas detection.

11" Flexible Gooseneck



Image: Detailed diagram labeling the various parts of the CHNADKS Gas Leak Detector.

Technical Specifications

ADKS-1 Combustible Gas Leak Detector	
Detection Range	0~10000umol/mol(ppm)
Resolution	1umol/mol(ppm)
Applicable Gases	Combustible
Alarm Points	Can be set, default low report 500umol/mol, default high report 2000umol/mol
Response Time	T<30s
Alarm Methods	LED, sound, vibration indication alarm.
Operating Environment	Temperature -20°C~50°C; Humidity<95%RH no condensation
Operating Voltage	DC37V (battery capacity 2000mAh)
Explosion Protection Mark	Ex ib IIB T3 GB
Standby Time	12h
Sensor Life	2years
Protection Class	IP65, Explosion-proof, dustproof and waterproof.
Weight	256g
Size	200mm x70mm x25mm

Image: Close-up views highlighting the design and functional aspects of the detector, such as the HD screen and anti-slip grip.

5. SETUP

5.1 Initial Charging

Before first use, fully charge the device using the provided charger and USB cable. Connect the USB cable to the detector's charging port and the charger to a power outlet. The battery indicator on the LCD screen will show charging status.

5.2 Powering On/Off

To power on the device, long-press the central Switch Key. The device will perform a self-check and warm-up, which typically takes 1-15 seconds. During this time, it may beep and vibrate. To power off, long-press the Switch Key again.

5.3 Warm-up Time

Allow the detector to complete its warm-up sequence (1-15 seconds) after powering on. This ensures the sensor is calibrated and ready for accurate detection.



Image: The detector displaying its warm-up time, indicating readiness for use.

6. OPERATION

6.1 Basic Gas Detection

Once the device has completed its warm-up, the LCD screen will display '0' (or a low background reading). Position the flexible gooseneck probe near the area suspected of a gas leak. Move the probe slowly to cover the entire area. The device will provide real-time readings on the LCD screen.

6.2 Sensitivity Levels

The detector features two sensitivity levels:

- **Low Sensitivity:** 500-2000ppm
- **High Sensitivity:** 2000-10000ppm

Refer to the manual for instructions on how to switch between sensitivity modes if needed. For general use, the default settings are often sufficient.

6.3 Alarm Indicators

When a gas leak is detected and the concentration exceeds the set alarm threshold, the device will activate its triple alarm system:

- **Audible Alarm:** A beeping sound will be emitted from the buzzer.
- **Visual Alarm:** The alarm indicator light will flash.
- **Vibration Alarm:** The device will vibrate.

The LCD screen will also display the detected gas concentration. The higher the concentration, the more frequent and intense the alarms.

6.4 Zeroing Function

The device supports both auto-zeroing and manual zeroing. Auto-zeroing occurs during startup. For manual zeroing, refer to the detailed instructions in the full user manual. This function helps ensure accurate readings by resetting the baseline in a clean air environment.



Scope of Application



Image: Various scenarios where the gas leak detector can be used, including home kitchens, automotive, and industrial environments.

7. MAINTENANCE

7.1 Cleaning

Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents, as these can damage the casing or internal components. Ensure the sensor area is kept clean and free from obstructions.

7.2 Battery Care

The device uses a 2000mAh rechargeable lithium battery. To prolong battery life, avoid fully discharging the battery frequently. Recharge the device when the low battery indicator appears. If storing the device for an extended period, charge it periodically to maintain battery health.

7.3 Sensor Lifespan

The imported sensor has a lifespan of up to 2 years. Regular use and proper maintenance can help maximize its operational life. If you suspect the sensor's accuracy has diminished, consider professional calibration or replacement.

8. SAFETY INFORMATION

This gas leak detector is a valuable tool for identifying potential gas leaks. However, it should not be used as a substitute for proper safety procedures or professional inspections. Always prioritize safety when dealing with combustible gases.

- Do not rely solely on this device for life safety. Install fixed gas detectors in appropriate locations.
- If a gas leak is detected, immediately ventilate the area, turn off gas sources if safe to do so, and evacuate. Contact emergency services or a qualified professional.
- Do not operate the device in extremely hazardous or explosive atmospheres unless specifically rated for such environments.
- Keep the device away from water and extreme temperatures.
- Ensure the device is fully charged before critical inspections to avoid interruptions.

9. SPECIFICATIONS

ADKS-1 Gas Leak Detector



- 1. Detection range 0-10000ppm/umol/mol (in methane)
- 2. High (2000~10000ppm) and low (500~2000ppm) two levels of sensitivity
- 3. Sound, light and vibration three kinds of alarm
- 4. Automatic zeroing function and manual zeroing button in two ways

Image: A table detailing the technical specifications of the ADKS-1 Gas Leak Detector.

Specification	Value
Brand	CHNADKS
Model Number	ADKS-1
Detection Range	0-10000ppm (umol/mol, based on methane)
Resolution	1umol/mol(ppm)
Applicable Gases	Combustible gases (Methane, Natural Gas, Propane, Alcohol, etc.)
Alarm Points	Can be set; default low report 500umol/mol; default high report 2000umol/mol
Response Time	T<30s
Alarm Methods	LED, sound, vibration indication alarm
Operating Environment	Temperature: -20°C~50°C; Humidity: <95% RH (no condensation)
Operating Voltage	DC3.7V (battery capacity 2000mAh)
Explosion Protection Mark	Ex ib IIB T3 GB
Standby Time	12h
Sensor Life	2 years
Protection Class	IP65, Explosion-proof, dustproof and waterproof.
Weight	256g (0.57 Pounds / 9.1 ounces)
Size	200mm x 70mm x 25mm (7.87 x 2.75 x 0.97 inches)
Batteries	1 Lithium Ion battery required (included)

10. WARRANTY & SUPPORT

The CHNADKS Portable Gas Leak Detector comes with usage instructions and accessories. If you encounter any problems during the use of this combustible gas leak detector, please feel free to contact our dedicated customer

service team for assistance. Refer to your purchase documentation for specific warranty details and contact information.

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