CHNADKS ADKS-4

ADKS-4 Gas Detector User Manual

Model: ADKS-4 | Brand: CHNADKS

1. INTRODUCTION

The CHNADKS ADKS-4 Gas Detector is a portable, multi-gas monitoring device designed for the detection of four specific gases: Carbon Monoxide (CO), Oxygen (O2), Hydrogen Sulfide (H2S), and combustible gases (LEL). This device is engineered to provide reliable and accurate readings, ensuring safety in environments where these gases may be present. It incorporates advanced sensor technology, multiple alarm mechanisms, and a robust design suitable for various applications.

Image of the CHNADKS ADKS-4 Gas Detector, showing the orange device with its LCD screen displaying gas levels, alongside a USB charging cable, a back clip, and a protective carrying case.

2. SAFETY INFORMATION

Before operating the ADKS-4 Gas Detector, please read and understand all safety instructions. Failure to follow these instructions may result in injury, damage to the device, or inaccurate readings.

- **Do not** attempt to open or modify the device. Servicing should only be performed by qualified personnel.

- Ensure the device is charged before use to maintain optimal performance.

- Regularly check the device for any physical damage or blockages to the sensor inlets.

- Operate the device within its specified environmental conditions (temperature, humidity).

- This device is a safety tool; it should not replace proper safety procedures or personal protective equipment.

- Always perform a bump test or calibration check before critical use to ensure sensor responsiveness.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1x ADKS-4 Gas Detector
- 1x User Manual (this document)
- 1x USB Charging Cable
- 1x Packing Box / Carrying Case

4. DEVICE OVERVIEW

The ADKS-4 Gas Detector features a robust, industrial-grade design with an intuitive interface.

4.1. Key Features

- **High-Quality Sensors:** Monitors H2S, O2, CO, and LEL with fast response and low error rates. Oxygen sensors have a service life of 2-5 years.
- **Triple Alarms:** Provides visual (LED light), audible (sound), and vibration alerts for gas exceedances.
- **Industrial-Grade Durability:** Crafted from high-strength ABS engineering plastic, making it waterproof, dustproof, and explosion-proof.
- **Ergonomic Design:** Features a back clip for convenient carrying during on-site work.
- **Long Battery Life:** Equipped with a 2000mAh Li-ion battery, supporting up to 18 hours of continuous use.

Diagram illustrating the ADKS-4 Gas Detector's internal sensors for EX (combustible gases), O2 (oxygen), H2S (hydrogen sulfide), and CO (carbon monoxide), highlighting their fast response and accurate measurement capabilities.

4.2. Physical Layout

The device features an LCD screen for displaying gas concentrations, control buttons for navigation, and sensor inlets. A back clip is integrated for portability.

Easy to Carry with Back Clip

2.55 inches

Waterproof

Dustproof

Explosion-proof

5.11 inches

CHNADKS Gas detector
Product model: ADKS-4
Gas and range:
EX(0~100%LEL)   O2(0~30%VOL)
H2S(0~100PPM)   CO(0~1000PPM)
Voltage: DC3.7V   2000mAh
Working environment:
temperature: -20℃~50℃(-4°F~122°F)
Humidity<95%RH(no condensation)
S/N: 20250720741

1.77 inches

CE FC RoHS

Rear view of the ADKS-4 Gas Detector, displaying its dimensions (5.11 inches height, 2.55 inches width, 1.77 inches depth) and the integrated back clip. Icons indicate its waterproof, dustproof, and explosion-proof features.

5. CHARGING THE DEVICE

The ADKS-4 Gas Detector is powered by a rechargeable 2000mAh Li-ion battery.

- Connect the provided USB charging cable to the device's charging port.
- Connect the other end of the USB cable to a standard USB power adapter (not included) or a computer USB port.
- The charging indicator on the device will illuminate during charging.
- A full charge typically takes 6-8 hours.
- Once fully charged, the device can operate for approximately 16-18 hours.

Image showing the ADKS-4 Gas Detector connected to a USB charging cable, with text indicating a charging time of 6-8 hours and a usage time of 16-18 hours from its 2000mAh rechargeable lithium battery.

6. OPERATING INSTRUCTIONS

6.1. Power On/Off

- **To Power On:** Press and hold the power button (usually the central button) for a few seconds until the device powers on and initiates a self-test sequence.
- **Self-Test:** Upon startup, the device will perform a self-check, including sensor verification and alarm tests. This process may take approximately one minute. Wait for the self-test to complete before use.
- **To Power Off:** Press and hold the power button again until the device powers down.

6.2. Interpreting Readings

The LCD screen displays real-time concentrations for each of the four monitored gases:

- **EX (LEL):** Lower Explosive Limit for combustible gases, displayed as a percentage.

- **O2:** Oxygen concentration, displayed as %VOL (percentage by volume). A normal oxygen level is approximately 20.9%VOL.

- **H2S:** Hydrogen Sulfide concentration, displayed in PPM (parts per million).

- **CO:** Carbon Monoxide concentration, displayed in PPM (parts per million).

Refer to local safety regulations and guidelines for acceptable gas level ranges in your specific environment.

6.3. Alarm Functions

The ADKS-4 Gas Detector features three distinct alarm types to alert users when gas concentrations exceed preset thresholds:

- **Visual Alarm:** Flashing LED lights on the device.

- **Audible Alarm:** A loud beeping sound.

- **Vibration Alarm:** The device vibrates.

These alarms operate simultaneously to ensure warnings are not missed, even in noisy or low-visibility conditions.

Visual representation of the three alarm types of the ADKS-4 Gas Detector: visual (flashing LED), audible (sound waves), and

7. CALIBRATION

The ADKS-4 Gas Detector comes with factory-preset calibration levels that adhere to industry standards. While the device is ready for use out of the box, it is possible to adjust these calibration levels if specific operational requirements dictate. Accessing calibration settings typically requires a password to prevent unintended changes. It is recommended to consult the detailed instructions within the device's internal menu or contact support for advanced calibration procedures.

8. MAINTENANCE

- **Cleaning:** Wipe the device exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure sensor inlets are clear of dust and debris.
- **Storage:** Store the device in a cool, dry place, away from direct sunlight and extreme temperatures. Use the provided carrying case for protection.
- **Sensor Life:** The oxygen sensor has a service life of 2-5 years. Other sensors also have a finite lifespan. Regular maintenance and calibration checks help ensure their accuracy.
- **Battery Care:** Recharge the battery regularly, even if the device is not in frequent use, to maintain battery health. Avoid fully discharging the battery for extended periods.

9. TROUBLESHOOTING

If you encounter issues with your ADKS-4 Gas Detector, refer to the following common troubleshooting steps:

- **Device not powering on:** Ensure the battery is charged. Connect the device to the charger and attempt to power on after a few minutes.
- **Inaccurate readings:** Perform a bump test or calibration check. Ensure sensor inlets are not obstructed. Verify the device is operating within its specified environmental conditions.
- **Alarms not functioning:** Check device settings to ensure alarms are enabled. During startup, the device performs an alarm self-test; if this fails, contact support.
- **Short battery life:** Ensure the device is fully charged. Battery performance can degrade over time; if significantly reduced, consider battery replacement (by authorized service only).

For persistent issues or problems not listed here, please contact CHNADKS customer support.

10. TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	CHNADKS
Model Number	ADKS-4
Monitored Gases	H2S, O2, CO, LEL
Power Source	Battery Powered
Battery Type	1 Lithium Ion battery (included)

Feature	Specification
Battery Capacity	2000mAh
Charging Time	6-8 hours
Usage Time	16-18 hours
Product Dimensions	2.55"D x 1.77"W x 5.11"H
Item Weight	1.1 Pounds
Alarm Type	Audible, Visual, Vibration
Durability Features	Waterproof, Dustproof, Explosion-proof
Included Components	Gas Detector, User Manual, Charging cable, Packing Box

Industrial Manufacturing

Home and Daily Life

Mining

Public Facilities

Collage of four images depicting various usage environments for the ADKS-4 Gas Detector: industrial manufacturing, home and daily life, mining, and public facilities, illustrating its versatility.

11. WARRANTY AND SUPPORT
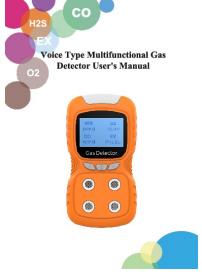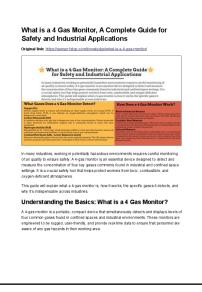
The CHNADKS ADKS-4 Gas Detector is supplied with industry standard test reports and certificates to ensure reliability and accuracy. For specific warranty details, including coverage period and terms, please refer to the documentation provided with your purchase or contact CHNADKS customer service directly.

For technical support, troubleshooting assistance, or inquiries regarding calibration and service, please visit the official CHNADKS website or contact their customer support channels.

Image displaying several framed certificates, likely representing industry standard test reports and certifications for the ADKS-4 Gas Detector, ensuring its reliability and accuracy.

Related Documents - ADKS-4

	[HZXVOGEN Portable Gas Detector User Manual - Voice Type Multifunctional Gas Monitor](#) Comprehensive user manual for the HZXVOGEN Portable Gas Detector (Gas Clip 3 Alarms 4-Gas Monitor). Covers operation, features, technical specifications, and safety for detecting H2S, CO, O2, and EX gases with LCD display and multi-alert system.
	[ADKS-4 Portable Four-in-One Gas Detector Operation Manual](#) This operation manual provides comprehensive details on the ADKS-4 portable four-in-one gas detector, covering its features, technical specifications, operation, menu functions, troubleshooting, and maintenance procedures.
	[What is a 4 Gas Monitor: A Complete Guide for Safety and Industrial Applications](#) A comprehensive guide to 4-gas monitors, explaining what they are, how they work, the gases they detect (Oxygen, Carbon Monoxide, Hydrogen Sulfide, Combustible Gases), their importance in various industries, key features to consider, maintenance, calibration, common mistakes, and selection criteria.
	[Honeywell BW Flex 4 Multi-Gas Monitor User Manual](#) Comprehensive user manual for the Honeywell BW Flex 4 multi-gas monitor, detailing its features, operation, maintenance, and safety guidelines. Learn about its various sensors, configuration options, and compatibility with Honeywell's Safety Suite.
	[LevelPro® ProAlert® Sentry 5000 Quick Start Manual - Audible & Visual Alarm Controller](#) Quick start guide for the LevelPro® ProAlert® Sentry 5000 Audible & Visual Alarm + Display Controller by ICON Process Controls. Includes specifications, safety guidelines, and programming instructions for 4-20mA input/output and relays.

[GOYOJO 4IN1 Gas Monitor User Manual - Detects O2, CO, H2S, Combustible Gas](#)

Comprehensive user manual for the GOYOJO 4IN1 Gas Monitor. Learn how to operate, calibrate, and maintain your device for detecting Oxygen, Carbon Monoxide, Hydrogen Sulfide, and Combustible Gas.