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RDINSCOS RD710US

RDINSCOS RD710 Natural Gas Leak Detector User Manual

Model: RD710US

1. INTRODUCTION

The RDINSCOS RD710 is a portable, high-sensitivity combustible gas leak detector designed to identify the presence of various flammable gases. This device provides both audible and visual alarms to alert users to potential gas leaks, ensuring safety in residential, commercial, and industrial environments. It features a rechargeable battery and an easy-to-read digital display for clear gas concentration readings.

2. PRODUCT OVERVIEW

2.1 Key Features

- **All-in-One Rechargeable Design:** Portable handheld gas leak detector with a built-in rechargeable battery, suitable for home, RV, kitchen, or industrial gas leak inspections.
- **High-Sensitivity FIGARO Sensor:** Advanced FIGARO sensor ensures ultra-precise detection of propane, methane, and LPG, providing early alerts and reducing false alarms.
- **Fast, Real-Time Leak Detection:** High sensitivity and fast response technology provide real-time gas leak detection for various hazards.
- **Easy-to-Read Digital Display & Alerts:** Digital display shows gas concentration clearly. Visual and audible gas leak alarms notify you when hazardous levels are detected.
- **Professional & Versatile Applications:** Ideal for home safety, plumbing inspections, RV gas leak detection, industrial gas leak checks, or professional use.

2.2 What's in the Box

- 1 x RDINSCOS RD710 Gas Detector
- 1 x USB Charging Cable
- 1 x Carrying Bag
- 1 x User Manual

What You Will Get



RD710

Combustible Gas Detector

Figure 2.2.1: Package contents of the RDINSOS RD710 Gas Detector.

3. SETUP

3.1 Charging the Device

The RD710 detector is equipped with a built-in 1200mAh Lithium Polymer battery. Before initial use, ensure the device is fully charged using the provided USB-C charging cable. Connect the cable to the device's charging port and a compatible USB power adapter (not included).

Last Longer, Charge Less



1200mAh



USB-C
Charging

* Please charge the device using the provided cable.

Figure 3.1.1: Charging the RDINSOS RD710 Gas Detector.

3.2 Initial Calibration (Preheating)

For accurate readings, the device requires a brief preheating and calibration period. After powering on, take the detector to an area known to be free of combustible gases (e.g., outdoors in fresh air). Press the "MEAS (Set '0')" button. The instrument will begin a 30-second warm-up countdown, after which it will be ready for detection.

Calibration Preheating



Figure 3.2.1: Performing initial calibration in a clean air environment.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

- To power on, press the power button (U) once.
- To power off, press and hold the power button (U) for a few seconds until the device shuts down.

4.2 Gas Detection Process

After calibration, slowly move the detector's probe tip near areas where a gas leak is suspected. The device will display gas concentration in PPM (Parts Per Million) on its digital screen. An increase in PPM indicates the presence of gas.



Figure 4.2.1: The RD710 detector with its FIGARO sensor, capable of detecting multiple combustible gases.

4.3 Display Modes and Alerts

The RD710 features a large LCD HD screen with two display modes: a graphic display and a numerical display. It provides both visual and audible alerts.

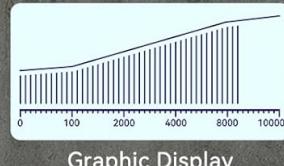
- **Visual Alarm:** The screen will show increasing PPM values, and indicator lights will change color (e.g., green for operation, yellow for low thresholds, red for high thresholds).
- **Audible Alarm:** A buzzing sound will activate when gas concentration reaches hazardous levels.
- **Mute Function:** Press the mute button (speaker icon) to turn audible alerts on or off as needed.

Easy to Read



BIG LCD
HD Screen

2
Display Modes



Graphic Display



Numerical Display



Figure 4.3.1: Digital display modes and visual alert indicators.

Alert Visual & Audible



Figure 4.3.2: Visual and audible alert features of the gas detector.

4.4 Flashlight and Backlight

The device includes a flashlight and backlight for use in dimly lit environments.

- Press the flashlight/backlight button (light bulb icon) to toggle the flashlight and screen backlight.
- Turning off the backlight when not needed helps conserve battery life.

4.5 Hold Function

Press the "HOLD" button to freeze the current reading on the display. This is useful for recording measurements in hard-to-reach areas or for later review. Press "HOLD" again to resume real-time detection.

4.6 Auto Power Off (APO)

The device features an Auto Power Off (APO) mode to save energy. If no operation is performed for 10 minutes, the detector will automatically power off. Press the "APO" button to toggle this feature on or off.

4.7 Applications

The RD710 is suitable for detecting combustible gases in various settings:

- Home kitchens (gas stoves, ovens)

- Gas boilers and furnaces
- RV gas systems
- Plumbing inspections
- Industrial sites and petrochemical plants
- Outdoor gas appliances (e.g., gas grills)



Figure 4.7.1: Versatile applications of the RD710 Gas Detector.

Video 4.7.2: An overview of the RDINSCOS RD710 Combustible Gas Detector, demonstrating its features and ease of use in various scenarios. This video highlights the device's quick response and multiple functions.

5. MAINTENANCE

To ensure the longevity and accuracy of your RDINSCOS RD710 Gas Detector, follow these maintenance guidelines:

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents, as they may damage the casing or sensor.
- **Storage:** Store the detector in a cool, dry place, away from direct sunlight and extreme temperatures. Use the provided carrying bag for protection.
- **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.

- **Sensor Protection:** Keep the sensor tip clean and free from dust or debris. Avoid exposing the sensor to harsh chemicals or liquids.

6. TROUBLESHOOTING

If you encounter issues with your RDINSCOS RD710 Gas Detector, refer to the following common problems and solutions:

- **Device does not power on:** Ensure the battery is charged. Connect the device to a charger and try again.
- **Inaccurate readings or false alarms:**
 - Ensure the device was calibrated in a clean air environment. Recalibrate if necessary.
 - Keep the device away from strong air currents (fans) or metal objects during detection, as these can interfere with the sensor.
 - The sensor uses high-precision technology and responds quickly to leaks. If false alarms persist, ensure there are no actual trace amounts of gas present.
- **No response to gas:** Ensure the sensor tip is clean and unobstructed. Verify the device is powered on and not in APO mode.
- **Which gases can this gas leak detector detect?** The device detects propane, methane, and LPG (liquefied petroleum gas). It uses an advanced FIGARO sensor with high sensitivity for fast leak detection. Natural gas (mainly methane) is within the detection range.

If the problem persists, please contact customer support for further assistance.

7. SPECIFICATIONS

Brand	RDINSCOS
Model Number	RD710US
Style	Sniffer
Power Source	Battery Powered
Color	Black_deep
Product Dimensions	1.6"D x 1.1"W x 5.4"H
Item Weight	0.44 Pounds (7 ounces)
Alarm Type	Audible, Visual
Number of Items	1
Battery Type	1 Nonstandard Lithium Polymer Battery (included)
Measuring Range	0-10000 PPM
Operation Temperature	0°C-50°C (32°F-122°F)
Charge Input	DC 5V, 500mA

8. SAFETY INFORMATION

Please read and understand all safety information before using the RDINSCOS RD710 Gas Detector. Failure to follow these instructions may result in property damage, injury, or death.

- This device is designed to detect combustible gases. It is not a substitute for proper ventilation, maintenance, or other safety measures.
- Do not disassemble or modify the device. Tampering with the device may compromise its safety features and void the warranty.
- Avoid using the device in extremely high or low temperatures, or in environments with high humidity.
- 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 technician.
- Keep the device out of reach of children.

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation included with your product or contact RDINSCOS customer service. Keep your purchase receipt as proof of purchase for any warranty claims.