

RDINSCOS RD900

RDINSCOS RD900 Digital Breathalyzer Instruction Manual

INTRODUCTION

The RDINSCOS RD900 Digital Breathalyzer is a compact, user-friendly, and highly accurate personal alcohol tester designed for safety and convenience. This device provides fast and reliable blood alcohol content (BAC) measurements, helping users make informed decisions. It features a vibrant LCD display, supports six different measurement units, and includes a memory function for reviewing past readings. Multiple reusable mouthpieces are provided for hygienic use. This manual provides detailed instructions on how to set up, operate, and maintain your RD900 breathalyzer to ensure optimal performance and accuracy.

IMPORTANT SAFETY INFORMATION

- **Wait 20 Minutes:** For best accuracy, wait at least 20 minutes after consuming alcohol before using the breathalyzer. Alcohol remaining in the mouth can lead to inaccurate readings.
- **Avoid Retesting Too Soon:** Do not retest within 3 minutes of a previous test, as this may affect the accuracy of subsequent results.
- **Not a Legal Instrument:** This device is intended for personal use only and should not be used as a definitive measure for legal purposes or to determine fitness to drive. Always adhere to local laws and regulations regarding alcohol consumption and driving.
- **Keep Out of Reach of Children:** Store the device and its accessories in a safe place away from children.
- **Proper Storage:** Avoid exposing the device to extreme temperatures, humidity, or direct sunlight.

PACKAGE CONTENTS

Verify that all items are present in the package:

- RDINSCOS RD900 Digital Breathalyzer
- 5 Reusable Mouthpieces
- USB Charging Cable
- User Manual (*This document*)

PRODUCT FEATURES

- **Fast & Accurate:** Utilizes a high-precision semiconductor sensor ($\pm 10\%$ accuracy) for quick and accurate Blood Alcohol Content (BAC) measurement.
- **Easy to Use:** Simple operation with a short warm-up time. Blow for 4-5 seconds, and results are displayed within 3 seconds on a full-color LCD screen.
- **Audible & Visual Alarms:** If BAC exceeds 0.02%, both a light and an audible alarm will activate.
- **Multiple Units Supported:** Supports six measurement units: mg/100ml, %BAC, mg/L BrAC, %BAC, g/L, and ‰PROM, making it adaptable to various standards.
- **Data Storage:** Stores up to 9 sets of test data, allowing users to track alcohol intake over time.
- **Hygienic & Portable:** Comes with 5 easy-to-clean reusable mouthpieces, suitable for personal or group use, and designed for on-the-go testing.

SETUP

1. **Charge the Device:** Before first use, ensure the breathalyzer is fully charged using the provided USB cable. The battery indicator on the screen will show charging status.
2. **Attach a Mouthpiece:** Select one of the reusable mouthpieces and firmly insert it into the designated port on the side of the device. Ensure it is securely attached to prevent air leakage during testing.
3. **Power On:** Press and hold the power button (usually labeled with a power icon) to turn on the device. The device will typically enter a warm-up phase.

Portable Alcohol Tester

Accurate and fast measurement
to avoid drunk driving



Figure 1: The RDINSCOS RD900 breathalyzer with a mouthpiece attached, ready for use in a vehicle. This image demonstrates the device's portability and ease of handling.

OPERATING INSTRUCTIONS

1. **Power On and Warm-up:** Press the power button. The device will display a warm-up countdown. Wait for the countdown to complete.
2. **Prepare to Blow:** Once the warm-up is complete, the screen will indicate "BLOW" or a similar prompt.
3. **Perform Test:** Take a deep breath and blow steadily into the mouthpiece for 4-5 seconds until you hear a beep or the device indicates the sample is sufficient.
4. **Read Results:** Your Blood Alcohol Content (BAC) result will be displayed on the full-color LCD screen within 3 seconds.
5. **Interpret Alarms:**
 - If BAC is below 0.02%, the display may show a green indicator.

- If BAC exceeds 0.02%, a light and an audible alarm will be triggered, indicating a higher alcohol level.

6. **Power Off:** The device will automatically power off after a period of inactivity, or you can manually turn it off by pressing and holding the power button.



* Suitability anyone who wants to have a drink and be responsible.

Figure 2: The RD900 display illustrating different BAC readings: "No Alcohol" (green), "Drinking" (yellow with buzzer), and "Drunk" (red with buzzer). This visual guide helps users quickly interpret their results.



Figure 3: A user demonstrating the proper technique for blowing into the RD900 breathalyzer's mouthpiece to obtain an accurate reading.

DATA STORAGE AND REVIEW

The RD900 can store up to 9 sets of test data, allowing you to monitor your alcohol intake over time.

1. **View Stored Data:** Press the "MEM" button to cycle through saved test results. Each press will display a previous reading.
2. **Clear Stored Data:** To clear all saved data, press and hold the "MEM" button until the display indicates that the memory has been cleared.

Data Storage & Easy to Read



Figure 4: The RD900 display showing the data storage feature, with multiple history entries visible. This highlights the device's ability to track past BAC readings.

MEASUREMENT UNITS

The RD900 supports six different measurement units, which can typically be selected through a settings menu (refer to the device's on-screen prompts or a dedicated settings button if available).

- mg/100ml
- %BAC (Blood Alcohol Content percentage)
- mg/L BrAC (Breath Alcohol Content milligrams per liter)
- ‰BAC (Promille Blood Alcohol Content)
- g/L (Grams per liter)
- ‰PROM (Promille)

MAINTENANCE

- **Cleaning Mouthpieces:** The provided mouthpieces are reusable. After each use, detach the mouthpiece and wash it with mild soap and water. Rinse thoroughly and allow it to air dry completely before reattaching or storing.
- **Device Cleaning:** Wipe the exterior of the breathalyzer with a soft, dry cloth. Do not use abrasive cleaners or immerse the device in water.
- **Storage:** Store the device in a cool, dry place, away from direct sunlight and extreme temperatures.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Inaccurate readings	◦ Tested too soon after drinking. ◦ Retested too quickly. ◦ Improper blowing technique. ◦ Mouthpiece not securely attached.	◦ Wait at least 20 minutes after consuming alcohol. ◦ Wait at least 3 minutes between tests. ◦ Ensure a steady, continuous blow for 4-5 seconds. ◦ Check mouthpiece attachment.
Device does not power on	◦ Low battery. ◦ Device malfunction.	◦ Charge the device fully. ◦ Contact customer support if charging does not resolve the issue.
Alarm sounds frequently	◦ BAC exceeds 0.02%.	◦ This is normal operation. The alarm indicates a higher alcohol level.

SPECIFICATIONS

Feature	Detail
Model Number	RD900
Sensor Type	High-precision semiconductor sensor
Accuracy	±10%
Measurement Units	mg/100ml, %BAC, mg/L BrAC, ‰BAC, g/L, ‰PROM
Display	Full-color LCD screen
Data Storage	Up to 9 sets of test data
Power Source	1 Lithium Polymer battery (included)
Dimensions	18.6 x 8.3 x 3.2 cm
Weight	210 g
Manufacturer	SHENZHEN REDDRAGON INSTRUMENTS CO.,LTD

WARRANTY AND SUPPORT

For warranty information, technical support, or any inquiries regarding your RDINSCOS RD900 Digital Breathalyzer, please refer to the contact information provided with your purchase or visit the official RDINSCOS website. Keep your purchase receipt as proof of purchase for warranty claims.

Manufacturer Contact: SHENZHEN REDDRAGON INSTRUMENTS CO.,LTD (Joss@reddragonmeter.com)

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Model number, symptoms, what you tried, or the section of the manual you are using.

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