

**R9200**

# **REED** **INSTRUMENTS**

## **Microwave Leakage Detector**



## **Instruction Manual**



**REED Instruments**

1-877-849-2127 | [info@reedinstruments.com](mailto:info@reedinstruments.com) | [www.reedinstruments.com](http://www.reedinstruments.com)

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## Introduction

Thank you for purchasing your REED R9200 Microwave Leakage Detector. Please read the following instructions carefully before using your instrument. By following the steps outlined in this manual your meter will provide years of reliable service.

## Product Quality

This product has been manufactured in an ISO9001 facility and has been calibrated during the manufacturing process to meet the stated product specifications.

## Safety

Never attempt to repair or modify your instrument. Dismantling your product, other than for the purpose of replacing batteries, may cause damage that will not be covered under the manufacturer's warranty. Servicing should only be provided by an authorized service center.

## Features

- Detects very low levels of microwave leakage
- Quick response and high accuracy
- Designed for one-handed operation
- Audible (beep) and visual (flashing LED) alarms at  $5 \text{ mW/cm}^2$
- 4-digit, backlit LCD display
- Max hold function and low battery indicator
- Zero button for quick adjustment

## Included

- Soft Carrying Case
- Battery

## Specifications

Measuring Range:	0 to $9.99 \text{ mW/cm}^2$
Accuracy:	$\pm 1 \text{ mW/cm}^2$
Resolution:	$0.01 \text{ mW/cm}^2$
Operating Frequency:	2.4GHz
Display:	4-digit LCD
Backlit Display:	Yes
Alarm:	Audible (buzzer) and Visual (LED Light)
Alarm Limit:	$5 \text{ mW/cm}^2$
Max Hold:	Yes
Zero Button:	Yes

*continued...*

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Response Time:	2x per second
Power Supply:	9V Battery
Low Battery Indicator:	Yes
Product Certifications:	CE
Operating Temperature:	32 to 122°F (0 to 50°C)
Storage Temperature:	14 to 140°F (-10 to 60°C)
Operating Humidity Range:	10 to 90%
Dimensions:	6.3 x 2.4 x 1.7" (160 x 60 x 42mm)
Weight:	5.3oz (151g)

## Instrument Description



- |                           |                          |
|---------------------------|--------------------------|
| 1. Sensor                 | 4. Max Button            |
| 2. Warning/Over Indicator | 5. Power Button          |
| 3. LCD Display            | 6. Backlight/Zero Button |

## Operating Instructions

1. Turn the meter on by pressing the POWER button.
2. While powering on, the warning/over alarm will beep and blink simultaneously.
3. Upon start up, hold the /ZERO button to perform a zero adjustment.
4. The LCD will now display a measurement value of 0.00
5. To take a measurement, place the meter 2" from the door seals or the front glass of the microwave.
6. Press the **MAX** button to the display the Maximum value during the measurement process.
7. To turn the meter off, press the POWER button.

## Microwave Oven Safety Standards

In the U.S., check with The Food and Drug Administration (FDA), while in Canada, check with Health Canada for microwave oven safety standards with regard to leakage requirements. The FDA's last update in 2017 limits the amount of microwave leakage to 5 milliwatts (mW) of microwave radiation per square centimeter at approximately 2 inches from the oven surface. This limit is far below the level known to harm people. Microwave energy also decreases dramatically as you move away from the source of radiation. Be sure to be up to date in regards to the current standards and regulations for the appropriate country before using this device. REED Instruments will not be held responsible for any damage to the equipment or personal injury in regards to the use of this meter or in the correct interpretation of the appropriate safety standards. The user assumes full safety responsibility at all times.

## Battery Replacement

When the low battery icon appears on the LCD display, you will need to replace the batteries. Remove the battery cover using a Phillips head screwdriver, insert a new 9V battery and secure the cover.

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## Applications

- Verifying leakage on microwave oven

## Accessories and Replacement Parts

### **CA-52A** Soft Carrying Case

Don't see your part listed here? For a complete list of all accessories and replacement parts visit your product page on [www.reedinstruments.com](http://www.reedinstruments.com).

## Product Care

To keep your instrument in good working order we recommend the following:

- Store your product in a clean, dry place.
- Change the battery as needed.
- If your instrument isn't being used for a period of one month or longer please remove the battery.
- Clean your product and accessories with biodegradable cleaner. Do not spray the cleaner directly on the instrument. Use on external parts only.

## Product Warranty

REED Instruments guarantees this instrument to be free of defects in material or workmanship for a period of one (1) year from date of shipment. During the warranty period, REED Instruments will repair or replace, at no charge, products or parts of a product that proves to be defective because of improper material or workmanship, under normal use and maintenance. REED Instruments total liability is limited to repair or replacement of the product. REED Instruments shall not be liable for damages to goods, property, or persons due to improper use or through attempts to utilize the instrument under conditions which exceed the designed capabilities. In order to begin the warranty service process, please contact us by phone at 1-877-849-2127 or by email at [info@reedinstruments.com](mailto:info@reedinstruments.com) to discuss the claim and determine the appropriate steps to process the warranty.

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## Product Disposal and Recycling



Please follow local laws and regulations when disposing or recycling your instrument. Your product contains electronic components and must be disposed of separately from standard waste products.

## Product Support

If you have any questions on your product, please contact your authorized REED distributor or REED Instruments Customer Service by phone at 1-877-849-2127 or by email at [info@reedinstruments.com](mailto:info@reedinstruments.com).

Please visit [www.REEDINSTRUMENTS.com](http://www.REEDINSTRUMENTS.com) for the most up-to-date manuals, datasheets, product guides and software.

*Product specifications subject to change without notice.*

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# TEST & MEASURE WITH CONFIDENCE



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