R5000

REED INSTRUMENTS

Watt Meter

WATT METER *True Power*

0.3
AC   0.00 V
          A

POWER   FUNCTION   HOLD   REC

☀   MAX / MIN

🔲 CE
6000 W X 1 W

POWER SOURCE

LOAD

| 10A | COM | V | WATT |

MAX 10A FUSED   MAX CATIII ~600V   MAX 10A

REED   R5000

1 YEAR WARRANTY

Instruction Manual

Table of Contents

Introduction

Thank you for purchasing your REED R5000 Watt Meter. 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 ISO 9001 facility and has been calibrated during the manufacturing process to meet stated product specifications. If a certificate of calibration is required please contact the nearest authorized REED distributor or authorized Service Center. Please note an additional fee for this service will apply.

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.
- Do not apply overload voltage or current to the input terminal.
- Remove test leads before opening the battery cover.
- Only use a dry cloth to clean the plastic case.

Features

- Measures Watt, AC Voltage/Current and Power Factor
- Large backlit dual LCD display
- Max/Min and Data Hold Functions
- Cat. III 600V safety rating
- Low battery indicator and auto shut off

Included

- Test Leads
- Battery

Specifications

Watt

Range:	0 to 6000W
Resolution:	1W
Accuracy:	±(1% + 5W)

AC Voltage

Range:	0 to 600V
Resolution:	0.1V
Accuracy:	± (0.3% + 0.3V)

AC Current

Range:	0 to 10A
Resolution:	0.01A
Accuracy:	±(0.3% + 0.03A)

Power Factor

Range:	0 to 1.0
Resolution:	0.01
Accuracy:	±(1% + 2d)

General Specifications

Display:	Dual LCD display
Max/Min and Data Hold Functions:	Yes
Backlit Display:	Yes
Kickstand:	Yes
Auto Power Off:	Yes (after 10 minutes)
Power Supply:	9V Battery or AC Adapter (Optional)
Low Battery Indicator:	Yes
Overvoltage Category:	CAT. III 600V
Product Certifications:	CE
Operating Temperature:	32 to 104°F (0 to 40°C)
Storage Temperature:	-4 to 140°F (-20 to 60°C)
Dimensions:	7.5 x 3.5 x 1.6" (190 x 88 x 40mm)
Weight:	0.88lb (398g)

REED

Instant Description
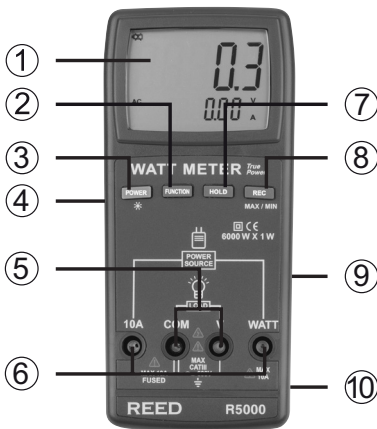
1. LCD Display
2. FUNCTION Button
3. POWER/Backlight Button
4. AC Adapter Terminal
5. Load Terminal
6. Power Source

7. HOLD Button
8. Record Button
9. Stand (Back)
10. Battery Cover (Back)

Operating Instructions

Press and hold the **POWER** button to turn the meter on and off.

Voltage Measurements

1. Turn the meter on.
2. Press the **FUNCTION** button to select ACV.
3. Connect the red test lead to the V input terminal and black test lead to the COM input terminal.
4. Touch the test leads to the voltage source.
5. Read the AC voltage measurement on the display. If the display shows "----" it indicates an out-of-range measurement.

Current Measurements

1. Turn the meter on.
2. Press the **FUNCTION** button to select ACA.
3. Connect the red test lead to the 10A input terminal and the black test lead to the COM input terminal.
4. Touch the test leads to the current source.
5. Read the AC current measurement on the display. The value indicated corresponds to the position selected. If the display shows "----" it indicates an out-of-range measurement.
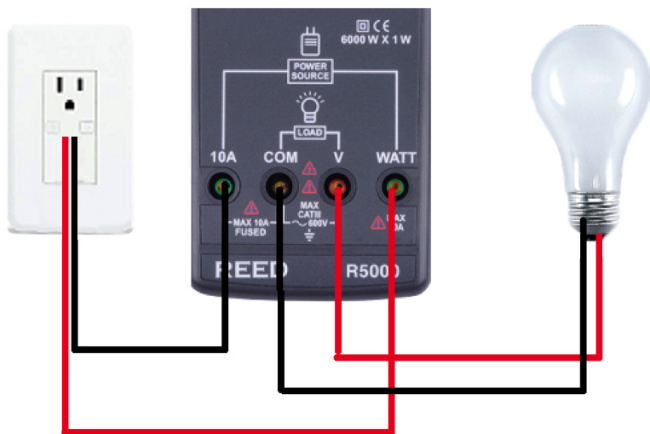
Watt Measurements

Note: One set of test leads is provided with the meter for AC/DC Current/Voltage measurements. For watt measurements a second set of test leads is required (not included).

1. Turn the meter on.
2. Verify the voltage of your equipment, either 110V or 220V.
3. Turn off the power source if applicable.
4. Plug in the load (equipment) to the V terminal and COM terminal.
5. Plug in the power source to the WATT terminal and 10A terminal.
6. Push the **FUNCTION** button to change the function for measuring ACV/ACA.

7. Turn on the power source (if applicable) or insert a probe into each vertical slot on the outlet as shown below and read out the Work voltage on the top part of the LCD.

8. Turn on the equipment power switch (if applicable) or place one probe to the ground slot of the light bulb (side of the light bulb) and the other probe to the power (center of the lightbulb) as shown below. Let the reading stabilize before reading out the Power Consumption from the bottom part of the LCD.

9. Push the **FUNCTION** button to change to WATT/PF measurements.

10. Read the active power and power factor value on the LCD.

Data Hold

While taking a measurement, press the **HOLD** button. The measured value will freeze and a "HOLD" symbol will appear on the LCD. Press the **HOLD** button again to resume normal operation.

Data Record (Max/Min Reading)

1. Press the **REC** button once to start the Data Record function. A "REC" symbol will appear on the LCD.
2. Press the **REC** button again to display the Max value. A "REC MAX" symbol will appear on the LCD.
3. To delete the maximum value, press the **HOLD** button. The "MAX" symbol will disappear from the LCD.
4. Press the **REC** button twice to display the Min value. A "REC MIN" symbol will appear on the LCD.
5. To delete the minimum value, press the **HOLD** button. The "MIN" symbol will disappear from the LCD.
6. Press and hold the **REC** button for approximately 2 seconds to exit the Data Record function and resume normal operation.

Backlight

While the meter is taking a measurement, press the BACKLIGHT button to turn the LCD backlight on and off.

Auto Power Off

To preserve battery life, the meter is programmed to turn itself off after 10 minutes of inactivity. To turn this function off, enter the Data Records function by pressing the **REC** button.

Battery Replacement

When the low battery symbol appears on the top left corner of the LCD you will need to replace the batteries. Make sure there are no test leads attached to the meter, and that the meter is turned off before opening the battery compartment.

1. Remove the battery cover with a screwdriver.
2. Replace the 9V battery and secure the battery compartment.

Accessories and Replacement Parts

- **CA-05A** Soft Carrying Case
- **R8888** Deluxe Hard Carrying Case
- **AP-9VA-110V** AC Adapter
- **R1020** Fused Test Leads

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.

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 to discuss the claim and determine the appropriate steps to process the warranty.

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.

Please visit **www.REEDINSTRUMENTS.com** for the most up-to-date manuals, datasheets, product guides and software.

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REED INSTRUMENTS

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REED
INSTRUMENTS

TEMPERATURE & HUMIDITY

SOUND

MOISTURE

AIR VELOCITY

ELECTRICAL