



## Artisan Technology Group is your source for quality new and certified-used/pre-owned equipment

- FAST SHIPPING AND DELIVERY
- TENS OF THOUSANDS OF IN-STOCK ITEMS
- EQUIPMENT DEMOS
- HUNDREDS OF MANUFACTURERS SUPPORTED
- LEASING/MONTHLY RENTALS
- ITAR CERTIFIED SECURE ASSET SOLUTIONS

### SERVICE CENTER REPAIRS

Experienced engineers and technicians on staff at our full-service, in-house repair center

### *InstraView*<sup>SM</sup> REMOTE INSPECTION

Remotely inspect equipment before purchasing with our interactive website at [www.instraview.com](http://www.instraview.com) ↗

### WE BUY USED EQUIPMENT

Sell your excess, underutilized, and idle used equipment. We also offer credit for buy-backs and trade-ins. [www.artisanng.com/WeBuyEquipment](http://www.artisanng.com/WeBuyEquipment) ↗

### LOOKING FOR MORE INFORMATION?

Visit us on the web at [www.artisanng.com](http://www.artisanng.com) ↗ for more information on price quotations, drivers, technical specifications, manuals, and documentation

**Contact us:** (888) 88-SOURCE | [sales@artisanng.com](mailto:sales@artisanng.com) | [www.artisanng.com](http://www.artisanng.com)

# Digital Multimeter

GDM-8200A Series

---

## QUICK USER GUIDE

GW INSTRUMENT PART NO.

This manual contains proprietary information, which is protected by copyrights. All rights are reserved. No part of this manual may be photocopied, reproduced or translated to another language without prior written consent of Good Will company.

The information in this manual was correct at the time of printing. However, Good Will continues to improve products and reserves the rights to change specifications, equipment, and maintenance procedures at any time without notice.



ISO-9001 CERTIFIED MANUFACTURER

**GW INSTRUMENT**

Good Will Instrument Co., Ltd.

No. 7-1, Jhongsing Rd., Tucheng City, Taipei County 236, Taiwan.

# Table of Contents

- I**NTRODUCTION .....4
- P**OWERING UP.....5
- B**ASIC.....6
  - Voltage/Current ..... 6
  - Resistance ..... 7
  - Diode/Continuity/Hz/Period/Temp..... 8
- A**DVANCED .....9
  - Measurement Combinations..... 10

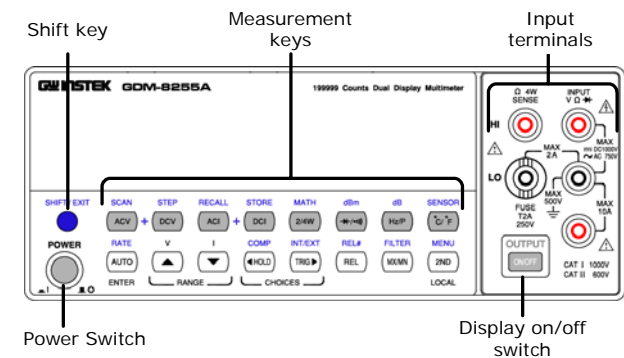
# INTRODUCTION

The GDM-8200A series quick start guide is intended for users who are not familiar with the instrument and need a tutorial for quickly accessing its major functionalities. For more details such as parameters, remote control commands, optional scanner, digital I/O, and specifications, refer to the user manual.

This manual consists of the following chapters. Power up the instrument according to the “Powering up” chapter, and then pick up the relevant chapter according to your needs.

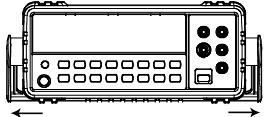
- Powering up
- Basic (measurement)
  - Voltage/Current
  - Resistance
  - Diode/Continuity/Frequency/Period/Temperature
- Advanced (measurement)
  - dBm/dB/Max/Min/Relative/Dual display
  - Measurement combinations

Front panel overview

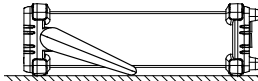


# POWERING UP

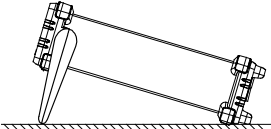
- 1. Tilt stand** Pull out the handle sideways and rotate it.

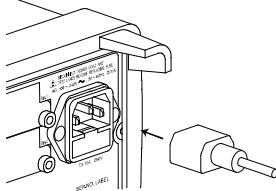


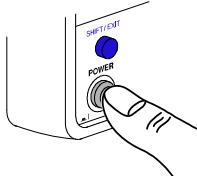
Horizontal position



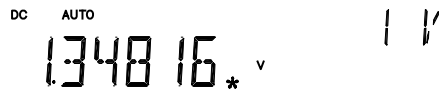
Tilt position


- 2. Connect the power cord** Connect the power cord to the AC Voltage input.


- 3. Press the power switch** Push the main power switch on the front panel to turn the instrument on.



The display contents appear and you are ready to make measurements.

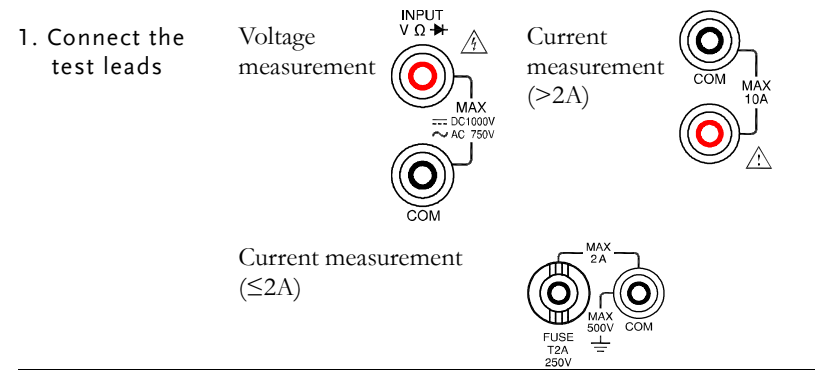


Powering up the instrument is completed

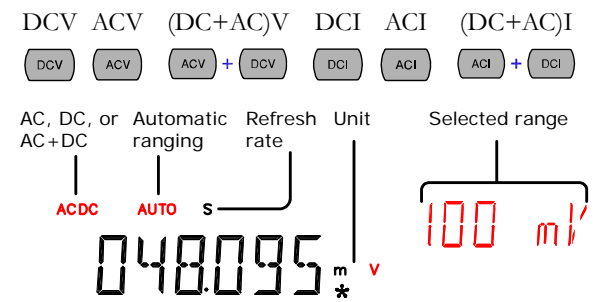
# BASIC MEASUREMENT

## Voltage/Current


Measurement item: DCV, ACV, (DC+AC)V, DCI, ACI, (DC+AC)I



- 2. Press the measurement key** Press the measurement keys on the front panel (For (DC+AC)V or (DC+AC)I, press both keys together). The measurement result will appear on the display.



**Manual ranging** To select the measurement range manually, press the Up/Down keys.

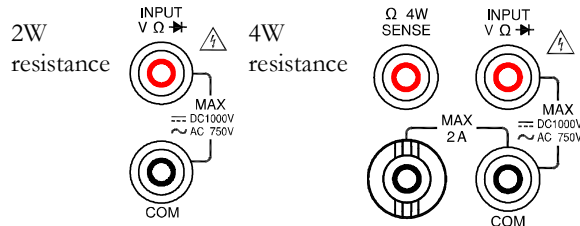


For further details, see the Voltage or Current section, Basic Measurement chapter in the user manual

# Resistance

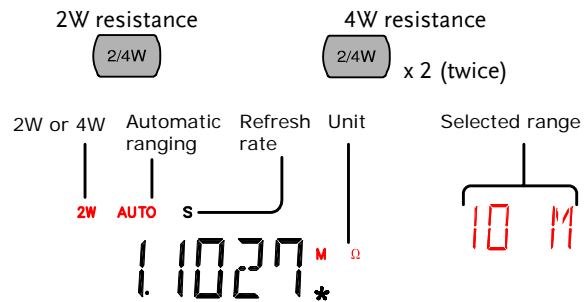
Measurement item: 2W resistance, 4W resistance

1. Connect the test leads



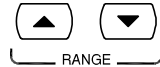
2. Press the measurement key

Press the measurement keys on the front panel. The measurement result will appear on the display.



Manual ranging

To select the measurement range manually, press the Up/Down keys.



For further details, see the Resistance section, Basic Measurement chapter in the user manual

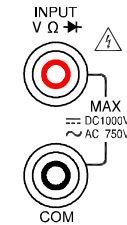
# Diode/Continuity/Hz/Period/Temp

Measurement item: Diode test, Continuity test, Frequency, Period, Temperature (Celsius), Temperature (Fahrenheit)

1. Connect the test leads

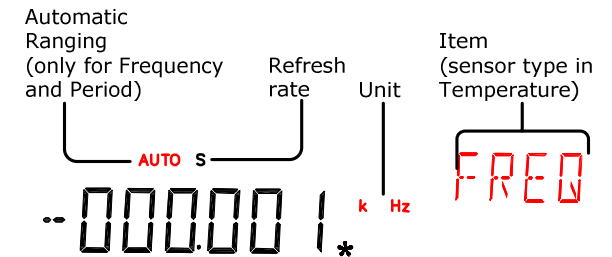
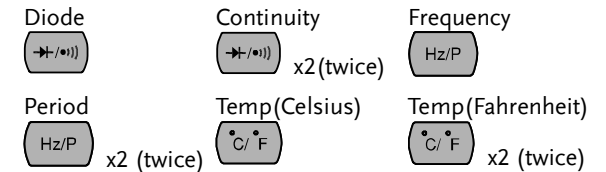
All items share the same terminal.

- Diode/Continuity
- Frequency/Period
- Temperature



2. Press the measurement key

Press the measurement keys on the front panel (For Continuity, Period, and Fahrenheit temp, press the same key twice). The measurement result will appear on the display.

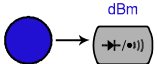
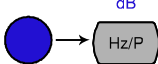







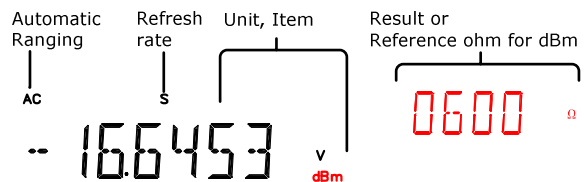
For further details, see the Diode/Continuity/Frequency/Period/Temperature section, Basic Measurement chapter in the user manual

# ADVANCED MEASUREMENT

Measurement item: dBm, dB, Max, Min, Relative, Dual display

1. Make a basic measurement  
Follow the procedures in the Basic measurement chapter, page6. For measurement combinations (basic + advanced, dual display), see page10.
2. Press the measurement key  
Press the measurement keys on the front panel. The measurement result will appear on the display.

Item	Keys	Descriptions
dBm		Shows $10 \cdot \log_{10}(1000 \cdot V_{rdg}^2 / R_{ref})$
dB		Shows (dBm - dBmref)
Max		Shows the maximum reading
Min	 x 2	Shows the minimum reading
Relative		Shows the relative value compared with the reference
Dual display	 → 	Shows the result of another measurement item (example: AC Voltage as the 2 <sup>nd</sup> item)



For further details including other measurement items (Hold, Compare, and Math), see the Advanced Measurement chapter in the user manual.

## Measurement Combinations

### Basic + Advanced measurement combinations

Advanced Measurement	Basic Measurement					
	AC/DCV	AC/DCI	2/4W	Hz/P	°C/°F	→/(*)
dB	•	—	—	—	—	—
dBm	•	—	—	—	—	—
Max/Min	•	•	•	•	•	—
Relative	•	•	•	•	•	—
Hold (*)	•	•	•	•	•	—
Compare (*)	•	•	•	•	•	—
Math (*)	•	•	•	•	•	—
Dual Display	•	•	•	•	—	—

(\*): For Hold, Compare and Math function details, see the Advanced Measurement chapter in the user manual.

### Dual display combinations

Combinations Any of the following items can be combined together for dual display measurements (for example ACV + Hz, DCV + DCI)

- ACV
- DCV
- ACI
- DCI
- Hz/P

Note Selecting other functions (such as 2W resistance) is possible but may not be useful, and their accuracies are not guaranteed.



## Artisan Technology Group is your source for quality new and certified-used/pre-owned equipment

- FAST SHIPPING AND DELIVERY
- TENS OF THOUSANDS OF IN-STOCK ITEMS
- EQUIPMENT DEMOS
- HUNDREDS OF MANUFACTURERS SUPPORTED
- LEASING/MONTHLY RENTALS
- ITAR CERTIFIED SECURE ASSET SOLUTIONS

### SERVICE CENTER REPAIRS

Experienced engineers and technicians on staff at our full-service, in-house repair center

### *InstraView*<sup>SM</sup> REMOTE INSPECTION

Remotely inspect equipment before purchasing with our interactive website at [www.instraview.com](http://www.instraview.com) ↗

### WE BUY USED EQUIPMENT

Sell your excess, underutilized, and idle used equipment. We also offer credit for buy-backs and trade-ins. [www.artisanng.com/WeBuyEquipment](http://www.artisanng.com/WeBuyEquipment) ↗

### LOOKING FOR MORE INFORMATION?

Visit us on the web at [www.artisanng.com](http://www.artisanng.com) ↗ for more information on price quotations, drivers, technical specifications, manuals, and documentation

**Contact us:** (888) 88-SOURCE | [sales@artisanng.com](mailto:sales@artisanng.com) | [www.artisanng.com](http://www.artisanng.com)