ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Instek GDM-8251A* at our website: ***Click HERE***

Digital Multimeter

GDM-8200A Series

QUICK USER GUIDE

GW INSTEK 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

Good Will Instrument Co., Ltd.

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

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Table of Contents

INTRODUCTION 4

POWERING UP 5

BASIC 6

Voltage/Current 6
Resistance 7
Diode/Continuity/Hz/Period/Temp 8

ADVANCED 9

Measurement Combinations 10

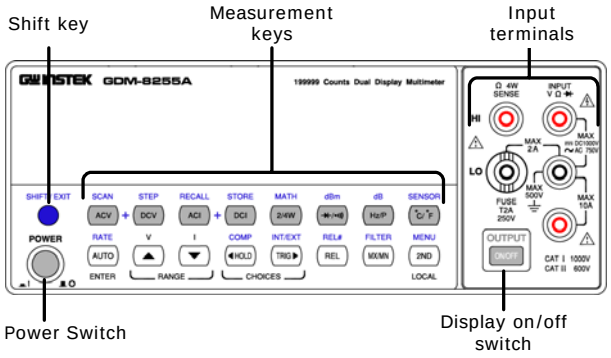
INTRODUCTION

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

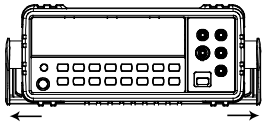


Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

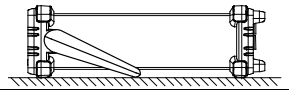
POWERING UP

1. Tilt stand

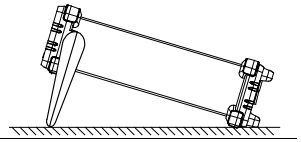
Pull out the handle sideways and rotate it.



Horizontal position

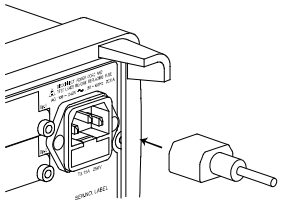


Tilt position



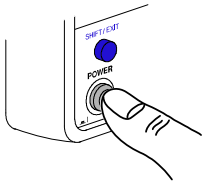
2. Connect the power cord

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

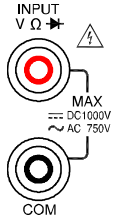
BASIC MEASUREMENT

Voltage/Current

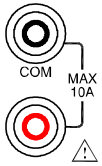
Measurement item: DCV, ACV, (DC+AC)V, DCI, ACI, (DC+AC)I

1. Connect the test leads

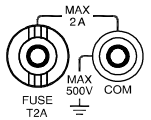
Voltage measurement



Current measurement (>2A)

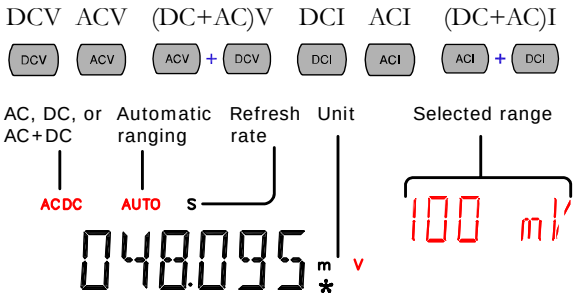


Current measurement (≤2A)



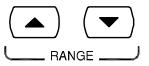
2. Press the measurement key

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

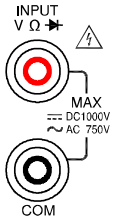
Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Resistance

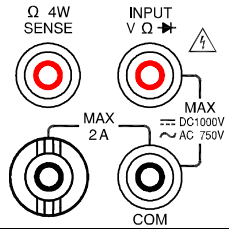
Measurement item: 2W resistance, 4W resistance

1. Connect the test leads

2W resistance

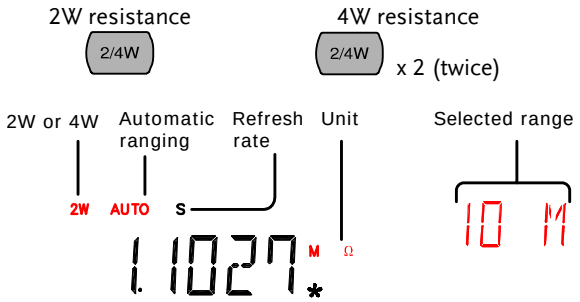


4W resistance



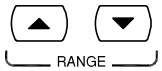
2. Press the measurement key

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

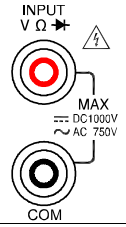
Diode/Continuity/Hz/Period/Temp

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

1. Connect the test leads

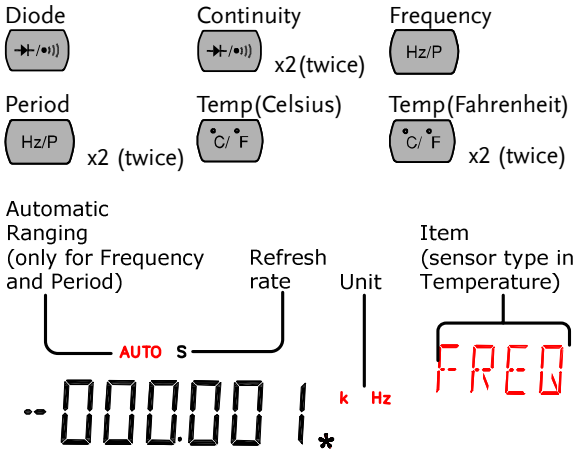
All items share the same terminal.

- 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

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

ADVANCED MEASUREMENT

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

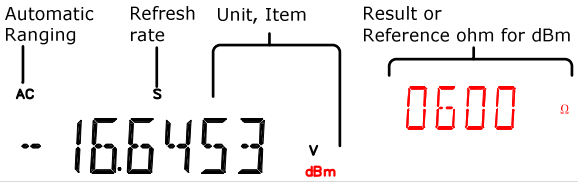
1. Make a basic measurement

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	dBm → ⊣/•))	Shows $10*\log_{10}(1000*Vrdg^2/Rref)$
dB	dB → Hz/P	Shows (dBm − dBmref)
Max	MX/MN	Shows the maximum reading
Min	MX/MN x 2	Shows the minimum reading
Relative	REL	Shows the relative value compared with the reference
Dual display	2ND → ACV	Shows the result of another measurement item (example: AC Voltage as the 2nd 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 - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP