

## A. I. (Automatic Identification) Measurement

Auto is no Longer Just for Switching Ranges



3 Year WARRANTY



Automatic Identification



Measurement

## GDM-9041/9042 50000 Counts Dual Measurement Multimeter

- 50,000 Counts
- 4.3 TFT Graphic LCD
- DCV Basic Accuracy: 0.02%
- A. I. Measurement Offers Automatic Identification and Measurement for Voltage, Resistance, Diode and Continuity Tests Without the Need for Manual Selection
- 11 Measurement Functions: DCV, ACV, DCI, ACI, 2-wire Resistance, Frequency, Period, Diode, Continuity, Capacitance and Temperature
- True RMS (AC, AC+DC) Measurements
- Dual Measurement Function to Providing Two Selected Measurement Simultaneously
- Max./Min., REL, MX+B, 1/X, Ref %, Compare, Hold, dB, dBm
- Standard Interfaces: USB Device (support USB CDC & USB TMC)
- Temperature Measurement Function (GDM-9042 only)
- USB Storage for Data Collection (GDM-9042 only)
- Optional Interface: GPIB (factory install for GDM-9042 only)

## SPECIFICATIONS

Function	Range (*2)	Resolution	Input Resistance or etc.	Accuracy(*1) 1 Year 23 °C ± 5 °C
DC Voltage	500.00 mV	10 µV	10 MΩ or > 10 GΩ	0.02 + 4
	5.0000 V	100 µV	10 MΩ or > 10 GΩ	0.02 + 4
	50.0000 V	1 mV	11.1 MΩ	0.02 + 4
	500.00 V	10 mV	10.1 MΩ	0.02 + 4
	1000.0 V	100 mV	10 MΩ	0.02 + 4
Resistance	500.00 Ω	10 mΩ	1 mA	0.10 + 5 (*3)
	5.0000 kΩ	100 mΩ	1 mA	0.10 + 3 (*3)
	50.0000 kΩ	1 Ω	100 µA	0.10 + 3
	500.00 kΩ	10 Ω	10 µA	0.10 + 3
	5.0000 MΩ	100 Ω	1 µA	0.10 + 3
	100.00 MΩ	10 kΩ	500 nA // 10 MΩ	≤ 50 MΩ: 0.30 + 3 > 50 MΩ: 1.75 + 3
DC Current	500.00 µA	10 nA	0.06 V max.	0.05 + 5
	5.0000 mA	100 nA	0.6 V max.	0.05 + 4
	50.0000 mA	1 µA	0.14 V max.	0.05 + 4
	500.00 mA	10 µA	1.4 V max.	0.10 + 4
	5.0000 A	100 µA	0.5 V max.	0.25 + 5
	10.000 A	1 mA	0.8 V max.	0.25 + 5
Continuity	5000.0 Ω	100 mΩ	1 mA	0.10 + 5
Diode Test	5.0000 V	100 µV	1 mA	0.05 + 5
Capacitance	5.000 nF: 0.5 nF to 1 nF	0.001 nF	10 µA	2.00 + 20
	5.000 nF: 1 nF to 5 nF	0.001 nF	10 µA	2.00 + 10
	50.00 nF: 5 nF to 10 nF	0.01 nF	10 µA	2.00 + 30
	50.00 nF: 10 nF to 50 nF	0.01 nF	10 µA	2.00 + 10
	500.0 nF	0.1 nF	100 µA	2.00 + 4
	5.000 µF	1 nF	0.5 mA	2.00 + 4
	50.00 µF	10 nF	1 mA	2.00 + 4
True RMS Voltage AC (or AC+DC) (*4/*5/*6)	500.00 mV	10 µV	30 Hz to 50 Hz	1.00 + 40
			50 Hz to 10 kHz	0.50 + 40
			10 kHz to 30 kHz	2.00 + 60
	5.0000 V	100 µV	30 kHz to 100 kHz	3.00 + 120
			30 Hz to 50 Hz	1.00 + 20
			50 Hz to 10 kHz	0.35 + 15
	50.0000 V	1 mV	10 kHz to 30 kHz	1.00 + 20
			30 kHz to 100 kHz	3.00 + 50
			30 Hz to 50 Hz	1.00 + 20
	500.00 V	10 mV	50 Hz to 10 kHz	0.35 + 15
			10 kHz to 30 kHz	1.00 + 20
			30 kHz to 100 kHz	3.00 + 50
	750.0 V	100 mV	30 Hz to 50 Hz	-----
			50 Hz to 10 kHz	0.50 + 15
			10 kHz to 30 kHz	-----
True RMS Current AC (or AC+DC) (*4/*5/*6)	500.00 µA	10 nA	30 Hz to 50 Hz	1.50 + 50
			50 Hz to 2 kHz	0.50 + 40
			2 kHz to 5 kHz	1.50 + 50
			5 kHz to 20 kHz	3.00 + 75
	5.0000 mA	100 nA	30 Hz to 50 Hz	1.50 + 40
			50 Hz to 2 kHz	0.50 + 20
			2 kHz to 5 kHz	1.50 + 40
	50.0000 mA	1 µA	5 kHz to 20 kHz	3.00 + 60
			30 Hz to 50 Hz	1.50 + 40
			50 Hz to 2 kHz	0.50 + 20
	500.00 mA	10 µA	2 kHz to 5 kHz	1.50 + 40
			5 kHz to 20 kHz	3.00 + 60
			30 Hz to 50 Hz	1.50 + 40
	5.0000 A	100 µA	50 Hz to 2 kHz	0.50 + 30
			30 Hz to 50 Hz	2.00 + 40
30 Hz to 50 Hz			2.00 + 40	
10.000 A	1 mA	50 Hz to 2 kHz	0.50 + 30	
		30 Hz to 50 Hz	2.00 + 40	
		50 Hz to 2 kHz	0.50 + 30	
Frequency	10 Hz to 500 Hz	-----	-----	0.01 + 5
	500 Hz to 500 kHz	-----	-----	0.01 + 3
	500 kHz to 1 MHz	-----	-----	0.01 + 5
Temperature (*7)(Thermocouple)	-200 °C to +300 °C	0.1 °C	J / T / K	2 °C (typical)
Display	4.3" TFT Graphic LCD			
Interface	USB Device, USB Host (for GDM-9042 only), GPIB (optional for GDM-9042 only)			
Power Source	AC 100 V / 120 V / 220 V / 240 V ± 10%, 50 Hz / 60 Hz; Power consumption: 30 VA max.			
Dimensions & Weight	268(W) mm x 107(H) mm x 302(D) mm ; Approx. 3.2 kg without option			

Note: 1. Accuracy = +/- (% of reading + digits)  
2. 2% overrange on all ranges, except 10 A is 20% overrange  
3. REL function is on  
4. The AC+DC is in AC coupled

5. The accuracy of AC+DC is equal to AC with 10 more digits added  
6. AC characteristics are for sine wave input > 5% of range  
7. Function is available for GDM-9042 only, and specifications do not include probe accuracy

Specifications subject to change without notice. GDM-904X\_ID1DH

### ORDERING INFORMATION

**GDM-9042** with GPIB 50000 counts Dual Measurement Multimeter with USB Host/Device and opt. GPIB  
**GDM-9042** 50000 counts Dual Measurement Multimeter with USB Host/Device  
**GDM-9041** 50000 counts Dual Measurement Multimeter with USB Device

### ACCESSORIES

Safety Instruction Sheet x 1, Power cord x 1, Test lead GTL-207A x 1

### OPTIONAL ACCESSORIES

**GTL-205A** Temperature probe adaptor with thermocouple (K-type), Approx. 1000 mm  
**GTL-246** USB Cable, A-B type, Approx. 1200 mm  
**GTL-248** GPIB Cable, Approx. 2000 mm  
**GDM-TL1** Test Lead Set for All DMM  
**GSC-014** Soft Carrying Case for DMM Accessory  
**GRA-422** Rack Mount Kit (19" 2U)  
**GRA-454** Rack Mount Kit (19" 2U) for one set or two sets

### OPTION \*

**GDM-90G1** GPIB card Note: Optional GPIB interface is only for GDM-9042 and it must be installed in factory.

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