Unrestrained Storage and Connection

Data storage no longer be bound by transmission wires



GDM-834X Series

3 Year WARRANTY

50000 Counts Dual Measurement Multimeter

- 50000 Counts Vacuum Fluorescent Display with Two Colors
- Dual Measurement
- Fast Measurement Rate Up to 40 readings/s for DCV
- 0.02% DCV Basic Accuracy
- Auto/Manual Ranging
- True RMS (AC, AC+DC)
- 11 Measurement Functions
- Max./Min.,REL,MX+B,1/X,Ref %,Compare,Hold,dB,dBm
- Standard USB Device for Communicating to PC
- Temperature Measurement (GDM-8342 only)
- USB Storage for Data Collection (GDM-8342 only)
- Optional GPIB (factory install for GDM-8342 only)





SPECIFICATIONS *1*2						
DC CHARACTERISTICS						
DC VOLTAGE						
Range(*3)	Resolution	Input Resistance	Accuracy 1 Year (23°C±5°C)			
500.00mV	00.00mV 10μV		0.02 + 4			
5.0000V	100µV	$10M\Omega$ or $>10G\Omega$	0.02 + 4 $0.02 + 4$ $0.02 + 4$			
50.000V	1mV	11.1M Ω				
500.00V	10mV	10.1M Ω				
1000.0V	100mV	10M Ω	0.02 + 4			
RESISTANCE						
Range(*3)	Resolution	Test Current	Accuracy 1 Year (23°C±5°C)			
500.00Ω	10m Ω	0.83mA	0.10 + 5 (*4)			
5.0000 k Ω	100m Ω	0.83mA	0.10 + 3 (*4)			
50.000 k Ω	1Ω	83µA	0.10 + 3			
500.00k Ω	500.00k Ω 10 Ω		0.10 + 3			
5.0000 M Ω	100Ω	830nA	0.10 + 3			
50.000M Ω 1k Ω		560nA//10M Ω	0.30 + 3			
DC CURRENT						
Range(*3)	Range(*3) Resolution		Accuracy 1 Year (23°C±5°C)			
500.00μA	10nA	0.06Vmax.	0.05 + 5			
5.0000mA	100nA	0.6Vmax.	0.05 + 4			
50.000mA	1μA	0.14Vmax.	0.05 + 4			
500.00mA	10μΑ	1.4Vmax.	0.10 + 4			
5.0000A	100μΑ	0.5Vmax.	0.25 + 5			
	10.000A 1mÅ		0.25 + 5			
CONTINUITY						
Range(*3)	Resolution	Test Current	Accuracy 1 Year (23°C±5°C)			
5000.0Ω	100mΩ	0.83mA	0.10 + 5			
DIODE TEST (*7	')					
Range(*3)	Resolution	Test Current	Accuracy 1 Year (23°C±5°C)			
5.0000V	100μV	0.83mA	0.05 + 5			
CAPACITANCE						
Range(*3)	Range(*3) Resolution		Accuracy 1 Year (23°C±5°C)			
5.000nF: 0.5~1nF	0.001nF	8.3µA	2.00 + 20			
5.000nF: 1~5nF	0.001nF	8.3µA	2.00 + 10			
50.00nF : 5~10nF	0.01nF	8.3µA	2.00 + 30			
50.00nF : 10~50nF	0.01nF	8.3µA	2.00 + 10			
500.0nF	0.1nF	83µA	2.00 + 4			
5.000µF	1nF	0.56mA 2.00 + 4				
50.00μF	10nF	0.83mA	2.00 + 4			

		10kHz ~ 30kHz 30kHz ~ 100kHz	1.00 + 20 3.00 + 50
50.000V	1mV	30Hz ~ 50Hz 50Hz ~ 10kHz 10kHz ~ 30kHz 30kHz ~ 100kHz	1.00 + 20 0.35 + 15 1.00 + 20 3.00 + 50
500.00V	10mV	30Hz ~ 50Hz 50Hz ~ 10kHz 10kHz ~ 30kHz 30kHz ~ 100kHz	0.50 + 15 1.00 + 20 3.00 + 50
750.0V	100mV	30Hz ~ 50Hz 50Hz ~ 10kHz 10kHz ~ 30kHz 30kHz ~ 100kHz	0.50 + 15
True RMS	AC (or AC+DC	- AC Coupled) Curre	nt (*5*6)
Range(*3)	Resolution	Frequency	Accuracy 1 Year (23°C±5°
500.00μΑ	10nA	30Hz ~ 50Hz 50Hz ~ 2kHz 2kHz ~ 5kHz 5kHz ~ 20kHz	1.50 + 50 0.50 + 40 1.50 + 50 3.00 + 75
5.0000mA	100nA	30Hz ~ 50Hz 50Hz ~ 2kHz 2kHz ~ 5kHz 5kHz ~ 20kHz	1.50 + 40 0.50 + 20 1.50 + 40 3.00 + 60
50.000mA	1µА	30Hz ~ 50Hz 50Hz ~ 2kHz 2kHz ~ 5kHz 5kHz ~ 20kHz	1.50 + 40 0.50 + 20 1.50 + 40 3.00 + 60
	30.4	30Hz ~ 50Hz	1.50 + 40
500.00mA	10μΑ	50Hz ~ 50Hz 50Hz ~ 2kHz 2kHz ~ 5kHz 5kHz ~ 20kHz	0.50 + 20 1.50 + 40 3.00 + 60
5.0000A	100μΑ	50Hz ~ 2kHz 2kHz ~ 5kHz	0.50 + 20 1.50 + 40

FREQUENCY AND PERIOD CHARACTERISTICS FREQUENCY / PERIOD			
Range	Accuracy 1 Year (23°C±5°C)		
10Hz ~ 500Hz	0.01 + 5		
500Hz ~ 500kHz	0.01 + 3		
500kHz ~ 1MHz	0.01 + 5		

General	
Display	VFD, Two Colors Display
Interface	USB device, USB Host (GDM-8342 only)
Power Source	AC 100 V / 120 V / 220 V / 240 V ±10%, 50-60Hz
Power Consumption	Max. 15VA
Dimensions & Weight	265 (W) x 107 (H) x 302 (D) mm, approx. 2.9kg

GDM-8342 with GPIB 50000 counts Dual Measurement Multimeter with USB Host/Device

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

(including complete user manual, USB driver and PC software)

50000 counts Dual Measurement Multimeter with USB Host/Device

50000 counts Dual Measurement Multimeter with USB Device

TEMPERATURE CHARACTERISTICS					
THERMOCOUPLES					
Type Range		Resolution	Accuracy(*7)1 Year (23°C±5°C)		
J / T / K	-200 °C ~ +300 °C	0.1 °C	2 ℃		

Note: The specifications apply when the DMM is warmed up for at least 30 minutes and operates in slow rate.

- 1. All specifications are ensured only under main (1st) display.

AC CHARACTERISTICS

Range(*3)

500.00mV

5.0000V

True RMS AC (or AC+DC – AC Coupled) Voltage (*5*6)

Resolution

 $100 \mu V$

Frequency or etc.

30Hz ~ 50Hz 50Hz ~ 10kHz 10kHz ~ 30kHz 30kHz ~ 100kHz

30Hz ~ 50Hz 50Hz ~ 10kHz

Accuracy 1 Year (23°C±5°C)

1.00 + 40 0.50 + 40

2.00 + 60 3.00 + 120

1.00 + 20 0.35 + 15

- 2. Accuracy: ± (% of reading + digits)
 3. 2% overrange on all ranges, except 10A.is 20% overrange.
- 4. REL function is on.
- 5. The accuracy of AC+DC is equal to AC with 10 more digits added.
- 6. AC Characteristics are for sinewave input > 5% of range.
- 7. Specifications do not include probe accuracy.

Specifications subject to change without notice. DM-8300GD2DH

OPTION						
Opt.1 GPIB In	terface			* Factory install	ed for GDI	M-8342 only.
OPTIONAL AS	ES					
GT1 0054 -		1	 4.1 .1	1 44		

GTL-205A Temperature probe adaptor with thermocouple (K-type), Approx. 1000mm

GTL-246 USB Cable, A-B type, Approx. 1200mm GTL-248 GPIB Cable, Double Shielded, 2000mm

GRA-422 Rack Mount Kit

GDM-TL1 Test Lead Set **GSC-014** Soft Carrying Case for DMM Accessory

GDM-8342

GDM-8341

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ORDERING INFORMATION

and opt.01 GPIB

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