Unrestrained Storage and Connection

Data storage no longer be bound by transmission wires



GDM-8300 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)





SPECIFICATIO	NS *1*2					
DC CHARACTERI	STICS					
DC VOLTAGE						
Range(*3)	Resolution	Input Resistance	Accuracy 1 Year (23°C±5°C			
500.00mV	10μV	$10M\Omega$ or $>10G\Omega$	0.02 + 4			
5.0000V	100µV	$10M\Omega$ or $>10G\Omega$	0.02 + 4			
50.000V	1mV	11.1M Ω	0.02 + 4			
500.00V	10mV	10.1M Ω	0.02 + 4			
1000.0V	100mV	10M Ω	0.02 + 4			
RESISTANCE						
Range(*3)	Resolution	Test Current	Accuracy 1 Year (23°C±5°C			
500.00Ω	$10m\Omega$	0.83mA	0.10 + 5 (*4)			
5.0000 k Ω	$100m\Omega$	0.83mA	0.10 + 3 (*4)			
50.000 k Ω	1Ω	83µA	0.10 + 3			
500.00k Ω	10Ω	8.3µA	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)	Resolution	Burden Voltage	Accuracy 1 Year (23°C±5°C			
500.00μΑ	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	1mA	0.8Vmax.	0.25 + 5			
CONTINUITY						
Range(*3)	Resolution	Test Current	Accuracy 1 Year (23°C±5°C			
5000.0Ω	$100 \text{m}\Omega$	0.83mA	0.10 + 5			
DIODE TEST (*7	7)					
Range(*3)	Resolution	Test Current	Accuracy 1 Year (23°C±5°C			
5.0000V	100µV	0.83mA	0.05 + 5			
CAPACITANCE						
Range(*3)	Resolution	Test Current	Accuracy 1 Year (23°C±5°C			
5.000nF: 0.5~1nF	0.001nF	8.3μΑ	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	lnF	0.56mA	2.00 + 4			
50.00μF	10nF	0.83mA	2.00 + 4			

AC CHARAC		– AC Coupled) Volta	age (☆E☆C)
Range(*3)	Resolution	Frequency	Accuracy 1 Year (23°C±5
500.00mV	10µV	30Hz ~ 50Hz 50Hz ~ 10kHz 10kHz ~ 30kHz 30kHz ~ 100kHz	1.00 + 40 0.50 + 40 2.00 + 60 3.00 + 120
5.0000V	100μV	30Hz ~ 50Hz 50Hz ~ 10kHz 10kHz ~ 30kHz 30kHz ~ 100kHz	1.00 + 20 0.35 + 15 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 A	AC (or AC+DC	- AC Coupled) Curr	ent (*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	1μΑ	30Hz ~ 50Hz 50Hz ~ 2kHz 2kHz ~ 5kHz 5kHz ~ 20kHz	1.50 + 40 0.50 + 20 1.50 + 40 3.00 + 60
500.00mA	10μΑ	30Hz ~ 50Hz 50Hz ~ 2kHz 2kHz ~ 5kHz 5kHz ~ 20kHz	1.50 + 40 0.50 + 20 1.50 + 40 3.00 + 60
			2.00 + 40
5.0000A	100μΑ	30Hz ~ 50Hz 50Hz ~ 2kHz	0.50 + 30

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

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

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.
- 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.

GTL-251 GPIB-USB-HS (high Speed)

6. AC Characteristics are for sinewave input > 5% of range.

Opt.1 GPIB Interface

7. Specifications do not include probe accuracy.

OPTION

Specifications subject to change without notice.

GTL-205 Temperature probe adaptor with thermocouple (K-type), Approx. 1000mm GTL-246 USB Cable, A-B type, Approx. 1200mm

DM-8300GD1DH

ORDERING INFORMATION

GDM-8342 with GPIB 50000 counts Dual Measurement Multimeter with USB Host/Device and opt.01 GPIB GDM-8342 50000 counts Dual Measurement Multimeter with USB Host/Device 50000 counts Dual Measurement Multimeter with USB Device

GDM-8341

Safety Instruction Sheet x 1, Power cord x 1, Test lead GTL-207 x 1, CD x 1 (including complete user manual, USB driver and PC software)

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