

50000 COUNTS DUAL DISPLAY DIGITAL MULTIMETER



GDM-8246 (50000 Counts)



GDM-8245 (50000 Counts)



FEATURES

- * 50000 Counts Display
- * Multi-Function ACV, DCV, ACA, DCA, R, C, Hz, Continuity Beeper, Diode Test, Max/Min, REL, Auto Hold, dBm
- * Compare Function (Only GDM-8246)
- * Dual Display Indicate ACV and Hz, DCV(ACV) and dBm
- * DCV and ACV Ripple (Only GDM-8246)
- * Manual or Auto Ranging
- * 0.02% DCV Accuracy, 0.03% for GDM-8245
- * ACV Measuring Frequency Up to 100kHz for GDM-8246, 50kHz for GDM-8245
- * 20A Current Range With High Energy Fuse Protection
- * Auto-Recall the Setting Upon Power ON (Only GDM-8246)
- * AC True RMS or AC + DC True RMS
- * RS-232C Interface(Only GDM-8246)
- * Option : GPIB Interface(Only GDM-8246)

GTL-117

For: GDM-8245/8246
GDM-8255/8251



Rear Panel



The GDM-8246/8245 bench-top DMM series is equipped with a rich set of features. It offers 50,000 counts meter with large 7 segment LED dual display, which simultaneously shows two electrical characteristics in a single measurement: ACV plus frequency or dBm, DCV plus dBm or ACV ripple. GDM-8246/8245 carries an extensive list of measurement items - DC Voltage/Current, AC Voltage/Current with true RMS, Resistance, Capacitance, Frequency, Continuity with Beeper, Diode Test, and dBm. Additional measurement functions, such as Max/Min hold, Relative value, and Compare (GDM-8246 only), load off the setup and diagnosis burden. The GDM-8246 permits remote control and data-logging using standard IEEE488.2 protocol or proprietary Windows based software via RS-232C or optional GPIB interface.

SPECIFICATIONS

DC VOLTAGE																					
Range	500mV, 5V, 50V, 500V, 1000V 5 ranges																				
Accuracy	\pm (0.02% rdg + 4 digits) for GDM-8246																				
Input Impedance	\pm (0.03% rdg + 4 digits) for GDM-8245 10M Ω																				
AC VOLTAGE TRUE RMS (AC OR AC + DC TRUE RMS)																					
Range	500mV, 5V, 50V, 500V, 1000V 5 ranges																				
Accuracy	<table border="1"> <thead> <tr> <th>GDM-8246</th> <th>GDM-8245</th> </tr> </thead> <tbody> <tr> <td>500mV ~ 1000V 5 ranges :</td> <td>500mV ~ 50V 3 ranges :</td> </tr> <tr> <td>20Hz ~ 50Hz : \pm(1% rdg + 10 digits)</td> <td>20Hz ~ 45Hz : \pm(1% rdg + 15 digits)</td> </tr> <tr> <td>50Hz ~ 2kHz : \pm(0.3% rdg + 30 digits)</td> <td>45Hz ~ 2kHz \pm(0.5% rdg + 15 digits)</td> </tr> <tr> <td>2kHz ~ 10kHz : \pm(0.4% rdg + 50 digits)</td> <td>2k~10kHz \pm(1% rdg + 15 digits)</td> </tr> <tr> <td>500mV ~ 500V 4 ranges :</td> <td>10kHz ~ 20kHz \pm(2% rdg + 30 digits)</td> </tr> <tr> <td>10kHz ~ 20kHz : \pm(0.5% rdg + 50 digits)</td> <td>20kHz ~ 50kHz \pm(5% rdg + 30digits)</td> </tr> <tr> <td>500mV ~ 50V 3 ranges :</td> <td>500V,1000V range :</td> </tr> <tr> <td>20kHz ~ 50kHz : \pm(2% rdg + 20 digits)</td> <td>45Hz ~ 1kHz \pm(0.5% rdg + 15 digits)</td> </tr> <tr> <td>50kHz ~ 100kHz : \pm(5% rdg + 50 digits)</td> <td></td> </tr> </tbody> </table>	GDM-8246	GDM-8245	500mV ~ 1000V 5 ranges :	500mV ~ 50V 3 ranges :	20Hz ~ 50Hz : \pm (1% rdg + 10 digits)	20Hz ~ 45Hz : \pm (1% rdg + 15 digits)	50Hz ~ 2kHz : \pm (0.3% rdg + 30 digits)	45Hz ~ 2kHz \pm (0.5% rdg + 15 digits)	2kHz ~ 10kHz : \pm (0.4% rdg + 50 digits)	2k~10kHz \pm (1% rdg + 15 digits)	500mV ~ 500V 4 ranges :	10kHz ~ 20kHz \pm (2% rdg + 30 digits)	10kHz ~ 20kHz : \pm (0.5% rdg + 50 digits)	20kHz ~ 50kHz \pm (5% rdg + 30digits)	500mV ~ 50V 3 ranges :	500V,1000V range :	20kHz ~ 50kHz : \pm (2% rdg + 20 digits)	45Hz ~ 1kHz \pm (0.5% rdg + 15 digits)	50kHz ~ 100kHz : \pm (5% rdg + 50 digits)	
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Input Impedance	10M Ω																				
DC CURRENT																					
Range	500 μ A, 5mA, 50mA, 500mA, 2A, 20A 6 ranges																				
Accuracy	500 μ A~500mA 4ranges: \pm (0.05% rdg+3 digits);2A~20A 2ranges: \pm (0.2% rdg+5digits)GDM-8246 500 μ A~500mA 4ranges: \pm (0.02% rdg+2 digits);2A~20A 2ranges: \pm (0.3% rdg+2digits)GDM-8245																				
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RESISTANCE																					
Range	500 Ω , 5k Ω , 50k Ω , 500k Ω , 5M Ω , 20M Ω 6 ranges																				
Accuracy	500 Ω : \pm (0.1% rdg + 4 digits); 5k Ω ~ 500k Ω 3 ranges : \pm (0.1% rdg + 2 digits) 5M Ω : \pm (0.2% rdg + 2 digits); 20M Ω : \pm (0.3% rdg + 2 digits)																				
DIODE TEST																					
The one range can check the forward voltage of diode. Maximum forward voltage 1.5V open voltage 2.8V																					
CAPACITANCE																					
Range	5nF, 50nF, 500nF, 5 μ F, 50 μ F 5 ranges																				
Accuracy	\pm (2% rdg + 4 digits)																				
FREQUENCY																					
Input Level (Sine Wave)	mV range : 10Hz ~ 50kHz : >120mV ; 50k ~ 150kHz : >200mV 5V ~ 50V range : 10Hz ~ 200kHz >1.2V ; 500V range : 20Hz ~ 1kHz >12V																				
FUNCTIONS																					
Auto Range/Manual, Max, Min, dBm, REL, Hold; Compare and Set RECALL (GDM-8246 only)																					
CONTINUITY BEEPER																					
Built in buzzer sounds when conductance is less than 5 Ω																					
DISPLAY																					
Dual Display 0.4" and 0.5", 7 segment LED display																					
INTERFACE (only for GDM-8246)																					
Standard : RS-232C , Optional : GPIB																					
POWER SOURCE																					
AC 100V/120V/220V/230V \pm 10%, 50/60Hz																					
DIMENSIONS & WEIGHT																					
251 (W) x 91 (H) x 291 (D) mm, Approx. 2.6kg																					

ORDERING INFORMATION

- GDM-8246** 50,000 Counts Dual Display, Programmable DMM, with RS-232C Interface
- GDM-8245** 50,000 Counts Dual Display Digital Multimeter

ACCESSORIES :

User manual x 1, Programming manual x 1 (only for GDM-8246), Power cord x 1, Test lead GTL-117 x 1

Option (only for GDM-8246)

Opt.01 GPIB Interface (Factory Installed)

Optional Accessories

GTL-232 RS232C Cable, 9-pin Female to 9-pin, null Modem for Computer