

4 1/2 & 3 1/2 DIGITAL MULTIMETER



GDM-8145 (4 1/2 Digits)



GDM-8135 (3 1/2 Digits)



FEATURES

- * Vast Measuring Functions : AC/DC Voltage, AC/DC Current, Resistance and Diode Test
- * Continuity Beeper (GDM-8135)
- * Large 0.5" Red LED Display
- * High Resolution 10 μ V, 10nA and 10m Ω
- * All Range with Protection Circuit
- * 0.03% DCV Accuracy (GDM-8145), 0.1% DCV Accuracy (GDM-8135)
- * Auto Zero Circuit
- * 20A High Current Range
- * 1000V High Voltage Range
- * AC or AC + DC True RMS (GDM-8145)

GTL-107A Test Lead

For: GDM-8034, GDM-8135, GDM-8145



In terms of cost/performance ratio, the GDM-8145/8135 Series yield one of the best choices among the DMMs in today's market. The series are equipped with 4 1/2 (GDM-8145) or 3 1/2 (GDM-8135) digits, 0.5" LED display in a distinctive red color. Measurement items include DC Voltage/Current, AC Voltage/Current with true RMS (GDM-8145), Resistance, Diode Test, and Continuity with Beeper (GDM-8135). The true RMS AC and AC+DC response give accurate measurements for equivalent DC energy regardless of the waveform shape. Small voltage offsets are canceled by the auto-zero circuit, and protection mechanism is available for the entire measurement range. All these features provide users with robust measurement experience.

| SPECIFICATIONS | | |
|---|--|---|
| | GDM-8145 | GDM-8135 |
| DC VOLTAGE | | |
| Range | 200mV, 2V, 20V, 200V, 1000V 5 ranges. | 200mV, 2V, 20V, 200V, 1000V 5 ranges |
| Accuracy | $\pm(0.03\% \text{ rdg} + 4 \text{ digits})$ | $\pm(0.1\% \text{ rdg} + 1 \text{ digit})$ |
| Input Impedance | 10M | 10M |
| AC VOLTAGE | | |
| Range | 200mV, 2V, 20V, 200V, 1000V 5 ranges | 200mV, 2V, 20V, 200V, 1000V 5 ranges |
| Accuracy | 200mV ~ 20V 4 ranges 20Hz ~ 45Hz $\pm(1\% \text{ rdg} + 15 \text{ digits})$ 45Hz ~ 2kHz $\pm(0.5\% \text{ rdg} + 15 \text{ digits})$ 2kHz ~ 10kHz $\pm(1\% \text{ rdg} + 15 \text{ digits})$ 10kHz ~ 20kHz $\pm(2\% \text{ rdg} + 30 \text{ digits})$ 20kHz ~ 50kHz $\pm(5\% \text{ rdg} + 30 \text{ digits})$ 200V ~ 1000V range : 45Hz ~ 1kHz $\pm(0.5\% \text{ rdg} + 15 \text{ digits})$ | 200mV ~ 20V 3 ranges : 40Hz ~ 1kHz $\pm(0.5\% \text{ rdg} + 1 \text{ digit})$ 1kHz ~ 10kHz $\pm(1\% \text{ rdg} + 1 \text{ digit})$ 10kHz ~ 20kHz $\pm(2\% \text{ rdg} + 1 \text{ digit})$ 20kHz ~ 40kHz $\pm(5\% \text{ rdg} + 1 \text{ digit})$ 200V range : 40Hz ~ 1kHz $\pm(0.5\% \text{ rdg} + 1 \text{ digit})$ 1kHz ~ 10kHz $\pm(1\% \text{ rdg} + 1 \text{ digit})$ 1000V range : 40Hz ~ 1kHz $\pm(0.5\% \text{ rdg} + 1 \text{ digit})$ |
| Input Impedance | 10M | 10M |
| DC CURRENT | | |
| Range | 200 μ A, 2mA, 20mA, 200mA, 2000mA, 20A 6 ranges | 200 μ A, 2mA, 20mA, 200mA, 2A, 20A 6 ranges |
| Accuracy | 200 μ A ~ 200mA 4 ranges $\pm(0.2\% \text{ rdg} + 2 \text{ digits})$ 2000mA ~ 20A 2 ranges $\pm(0.3\% \text{ rdg} + 2 \text{ digits})$ | 200 μ A ~ 200mA 4 ranges : $\pm(0.2\% \text{ rdg} + 1 \text{ digit})$ 2A ~ 20A 2 ranges : $\pm(0.5\% \text{ rdg} + 1 \text{ digit})$ |
| AC CURRENT | | |
| Range | 200 μ A, 2mA, 20mA, 200mA, 2000mA, 20A 6 ranges | 200 μ A, 2mA, 20mA, 200mA, 2A, 20A 6 ranges |
| Accuracy | 200 μ A ~ 200mA 4 ranges 45Hz ~ 2kHz $\pm(0.5\% \text{ rdg} + 15 \text{ digits})$ 2kHz ~ 10kHz $\pm(1\% \text{ rdg} + 15 \text{ digits})$ 10kHz ~ 20kHz $\pm(2\% \text{ rdg} + 15 \text{ digits})$ 2000mA ~ 20A 2 ranges 45Hz ~ 2kHz $\pm(0.5\% \text{ rdg} + 15 \text{ digits})$ | 200 μ A ~ 200mA 4 ranges 40Hz ~ 1kHz $\pm(0.5\% \text{ rdg} + 1 \text{ digit})$ 1kHz ~ 10kHz $\pm(1\% \text{ rdg} + 1 \text{ digit})$ 10kHz ~ 20kHz $\pm(2\% \text{ rdg} + 1 \text{ digit})$ 2A ~ 20A 2 ranges, 40Hz ~ 2kHz $\pm(1\% \text{ rdg} + 2 \text{ digits})$ |
| RESISTANCE | | |
| Range | 200 , 2k , 20k , 200k , 2000k , 20M 6 ranges | 200 , 2k, 20k, 200k , 2M , 20M 6 ranges. |
| Accuracy | 200 : $\pm(0.1\% \text{ rdg} + 4 \text{ digits})$ 2k ~ 200k : $\pm(0.1\% \text{ rdg} + 2 \text{ digits})$ 2000k ~ 20M : $\pm(0.25\% \text{ rdg} + 2 \text{ digits})$ | 200 ~ 2M 5 ranges : $\pm(0.2\% \text{ rdg} + 1 \text{ digit})$ 20M range : $\pm(0.5\% \text{ rdg} + 1 \text{ digit})$ |
| DIODE TEST | | |
| Test Current | Max. 1 mA | Max. 1 mA |
| Open Voltage | Max. 13V | Max. 13V |
| CONTINUITY BEEPER | | |
| Description | — | Buzzer sounds if conductance < 10 Ω |
| Test Current | | Max. 1 mA |
| Open Voltage | | Max. 13V |
| DISPLAY | | |
| 0.5" LED display | | |
| POWER SOURCE | | |
| AC 100V/120V/220V/230V $\pm 10\%$, 50/60Hz | | |
| DIMENSIONS & WEIGHT | | |
| 245(W) x 95(H) x 280(D) mm, Approx. 2kg | | |

ORDERING INFORMATION

GDM-8145 4 1/2 Digits True RMS Digital Multimeter
GDM-8135 3 1/2 Digits Digital Multimeter

ACCESSORIES :
 User manual x 1, Power cord x 1, Test lead GTL-107A x 1