

# 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  $\mu$ V, 10nA and 10m $\Omega$
- \* 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
<b>DC VOLTAGE</b>		
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
<b>AC VOLTAGE</b>		
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
<b>DC CURRENT</b>		
Range	200 $\mu$ A, 2mA, 20mA, 200mA, 2000mA, 20A 6 ranges	200 $\mu$ A, 2mA, 20mA, 200mA, 2A, 20A 6 ranges
Accuracy	200 $\mu$ 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 $\mu$ A ~ 200mA 4 ranges : $\pm(0.2\% \text{ rdg} + 1 \text{ digit})$ 2A ~ 20A 2 ranges : $\pm(0.5\% \text{ rdg} + 1 \text{ digit})$
<b>AC CURRENT</b>		
Range	200 $\mu$ A, 2mA, 20mA, 200mA, 2000mA, 20A 6 ranges	200 $\mu$ A, 2mA, 20mA, 200mA, 2A, 20A 6 ranges
Accuracy	200 $\mu$ 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 $\mu$ 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 $\pm(1\% \text{ rdg} + 2 \text{ digits})$
<b>RESISTANCE</b>		
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 : $\pm(0.5\% \text{ rdg} + 1 \text{ digit})$
<b>DIODE TEST</b>		
Test Current	Max. 1 mA	Max. 1 mA
Open Voltage	Max. 13V	Max. 13V
<b>CONTINUITY BEEPER</b>		
Description	—	Buzzer sounds if conductance < 10 $\Omega$
Test Current	—	Max. 1 mA
Open Voltage	—	Max. 13V
<b>DISPLAY</b>		
0.5" LED display		
<b>POWER SOURCE</b>		
AC 100V/120V/220V/230V $\pm 10\%$ , 50/60Hz		
<b>DIMENSIONS &amp; WEIGHT</b>		
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