

# Digital Multimeter



## FEATURES

- \* 6 Functions AC/ DC Voltage, AC/DC Current, Resistance and Diode Test
- \* Large 0.5" Red LED Display
- \* High Resolution 10  $\mu$ V, 10nA and 10m $\Omega$
- \* All Range with Protection Circuit
- \* 0.03% DCV Accuracy
- \* Auto Zero Circuit
- \* 20A High Current Range
- \* 1200V High Voltage Range
- \* AC or AC + DC True R.M.S.

## GDM-8145 (4 1/2 Digits)

SPECIFICATIONS	
<b>DC VOLTAGE</b>	
Range	200mV, 2V, 20V, 200V, 1200V 5ranges.
Accuracy	$\pm(0.03\% \text{ rdg} + 4 \text{ digits})$
Input Impedance	10M $\Omega$
<b>AC VOLTAGE (AC or AC + DC True RMS)</b>	
Range	200mV, 2V, 20V, 200V, 1000V 5ranges
Accuracy	200mV ~ 200V 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 $\pm(5\% \text{ rdg} + 30 \text{ digits})$ 1000V range 45Hz ~ 1kHz $\pm(0.5\% \text{ rdg} + 15 \text{ digits})$
Input Impedance	10M $\Omega$
<b>DC CURRENT</b>	
Range	200 $\mu$ A, 2mA, 20mA, 200mA, 2000mA, 20A 6 ranges
Accuracy	200 $\mu$ A ~ 200mA 4 ranges $\pm(0.2\% \text{ rdg} + 2 \text{ digits})$ 200mA ~ 20A 2 ranges $\pm(0.3\% \text{ rdg} + 2 \text{ digits})$
<b>AC CURRENT</b>	
Range	200 $\mu$ A, 2mA, 20mA, 200mA, 2000mA, 20 A 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 $\pm(0.5\% \text{ rdg} + 15 \text{ digits})$
<b>RESISTANCE</b>	
Range	200 $\Omega$ , 2k $\Omega$ , 20k $\Omega$ , 200k $\Omega$ , 2000k $\Omega$ , 20M $\Omega$ 6 ranges.
Accuracy	200 $\Omega$ range $\pm(0.1\% \text{ rdg} + 4 \text{ digits})$ 2k $\Omega$ ~ 2000k $\Omega$ 4 ranges $\pm(0.1\% \text{ rdg} + 2 \text{ digits})$ 20M $\Omega$ range $\pm(0.25\% \text{ rdg} + 2 \text{ digits})$
<b>DIODE TEST</b>	
The three ranges have enough voltage to turn on silicon junctions to check the forward resistance, but the 2k $\Omega$ range is preferred and is marked with a larger diode symbol on the front panel of the instrument.	
<b>DISPLAY</b>	
0.5" LED Display	
<b>POWER SOURCE</b>	
AC 100V/120V/220V/230V $\pm 10\%$ , 50/60Hz	
<b>ACCESSORIES</b>	
Instruction manual x 1, Power cord x 1, Test lead GTL-107A x 1	
<b>DIMENSIONS &amp; WEIGHT</b>	
230(W) x 95(H) x 280(D) mm, Approx. 2kg	

## ORDERING INFORMATION

**GDM-8145** 4 1/2 Digits True R.M.S Digital Multimeter