

# INSTEK

Test and Measurement Products  
ISO-9001 & ISO-14001 Certified Manufacturer

## Dual Display Digital Multimeter

[Back to index](#)



**GDM-8245  
(50000 counts)**

**MSRP \$375**

### FEATURES :

- 50000 counts DMM
- Multi-function ACV, DCV, ACA, DCA, R, C, Hz, Continuity Beeper, Diode Test, Max/Min, REL, Hold, dBm
- Dual Display Indicate ACV and Hz or DCV(ACV) and dBm
- Manual or Autoranging
- 0.03% DCV Accuracy
- 20A High Current Range
- 1200V High Voltage Range
- AC True RMS or AC + DC True RMS



[Data Sheet](#)

[User Manual](#)

### SPECIFICATIONS

#### DC Voltage

##### Range

500mV, 5V, 50V, 500V, 1200V 5 ranges

##### Accuracy

$\pm(0.03\% \text{ rdg} + 4 \text{ digits})$ , 1200V range  $\pm(0.03\% \text{ rdg} + 9 \text{ digits})$

##### Input Impedance

10M $\Omega$

**AC Voltage True RMS (AC or AC + DC True RMS)**

<b>Range</b>	500mV, 5V, 50V, 500V, 1000V 5 ranges		
<b>Accuracy</b>	500mV ~ 50V 3 range	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: $\pm(5\% \text{ rdg} + 30 \text{ digits})$	
	500V, 1000V 2 range	45Hz ~ 1kHz: $\pm(0.5\% \text{ rdg} + 15 \text{ digits})$	
<b>Input Impedance</b>	10M $\Omega$		

**DC Current**

<b>Range</b>	500 $\mu$ A, 5mA, 50mA, 500mA, 2000mA, 20A 6 ranges		
<b>Accuracy</b>	500 $\mu$ A ~ 500mA 4 range: $\pm(0.2\% \text{ rdg} + 2 \text{ digits})$		
	2000mA ~ 20A 2 range: $\pm(0.3\% \text{ rdg} + 2 \text{ digits})$		

**AC Current True RMS (AC or AC + DC True RMS)**

<b>Range</b>	500 $\mu$ A, 5mA, 50mA, 500mA, 2000mA, 20A 6 ranges		
<b>Accuracy</b>	500 $\mu$ A ~ 500mA 4 range	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 range	45Hz ~ 2kHz: $\pm(0.5\% \text{ rdg} + 15 \text{ digits})$	

**Resistance**

<b>Range</b>	500 $\Omega$ , 5k $\Omega$ , 50k $\Omega$ , 500k $\Omega$ , 5M $\Omega$ , 20M $\Omega$ 6 ranges		
<b>Accuracy</b>	500 $\Omega$ range: $\pm(0.1\% \text{ rdg} + 4 \text{ digits})$		
	5k $\Omega$ ~ 500k $\Omega$ 3 range: $\pm(0.1\% \text{ rdg} + 2 \text{ digits})$		
	5M $\Omega$ range: $\pm(0.2\% \text{ rdg} + 2 \text{ digits})$		
	20M $\Omega$ range: $\pm(0.3\% \text{ rdg} + 2 \text{ digits})$		

**Diode Test**

The one ranges can check the forward voltage of diode. Maximum forward voltage 1.5V. open

voltage 2.8V.

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<b>Capacitance</b>	
<b>Range</b>	5nF, 50nF, 500nF, 5 $\mu$ F, 50 $\mu$ F 5 ranges
<b>Accuracy</b>	$\pm$ (2% rdg + 4 digits)

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<b>Frequency</b>	
<b>Sensitivity</b>	mV range : >120mV (10Hz ~ 50kHz) >200mV (50k ~ 150kHz)
	5V range : >1V (10Hz ~ 200kHz)
	50V range : >1.2V (20Hz ~ 200kHz)
	500V range : >12V (20Hz ~ 1kHz)

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<b>Continuity Beeper</b>	< 5 $\Omega$
<b>NMRR</b>	> 60dB
<b>CMRR</b>	> 90dB
<b>Operating Mode</b>	Auto Range / Manual
<b>Other Functions</b>	Max, Min, dBm (63.8dBm ~ -97.7dBm), REL, Hold
<b>Display</b>	Dual Display 0.4", 0.5", 7 segment LED display
<b>Power Source</b>	AC 115V/230V $\pm$ 15%, 50/60Hz
<b>Accessories</b>	Instruction manual $\times$ 1, Power cord $\times$ 1, Test lead GTL-117 $\times$ 1

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<b>Dimensions &amp; Weight</b>	251(W) $\times$ 91(H) $\times$ 291(D) mm, Approx. 1.86kg
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[Back to index](#)

