

# Automatic Identification Measurement



## 5 1/2 Digit Dual Measurement Multimeter

### GDM-9052

- 5 1/2 Digit Display: 239,999 Counts max.
- 4.3" TFT Graphic LCD
- DCV Basic Accuracy: 0.012 %
- A. I. Measurement offers automatic identification and measurement for Voltage, Resistance, Diode and Continuity tests without the need for manual selection
- 12 different measurement Functions: AC/DC voltage, AC/DC current, 2-wire/4-wire Resistance, Frequency, Period, Diode, Continuity, Capacitance and Temperature
- True RMS (AC, AC+DC) measurements
- Dual Measurement Function to Providing Two Selected Measurement Simultaneously
- Many Math functions: Max./Min., REL/REL#, Compare, Hold, dB, dBm, MX+B, %, 1/X
- Digital I/O provides dual mode (standard Compare and User definition modes)
- Standard interfaces : RS-232C and USB device (support USB CDC and USB TMC modes)

**GW INSTEK**  
Simply Reliable

# SPECIFICATIONS

# Datasheet

Range (*2)	Resolution	Input Resistance etc.	Accuracy (*3) 1 Year (23 °C ± 5 °C)
<b>DC Voltage</b>			
200.000 mV	1 µV	10 MΩ or > 10 GΩ	0.012 + 8
2.00000 V	10 µV	10 MΩ or > 10 GΩ	0.012 + 5
20.0000 V	100 µV	11.1 MΩ	0.012 + 5
200.000 V	1 mV	10.1 MΩ	0.012 + 5
1000.00 V	10 mV	10 MΩ	0.012 + 5
<b>Resistance</b>			
200.000 Ω	1 mΩ	1 mA	0.05 + 8
2.00000 kΩ	10 mΩ	1 mA	0.05 + 5
20.0000 kΩ	100 mΩ	100 µA	0.05 + 5
200.000 kΩ	1 Ω	10 µA	0.05 + 5
2.00000 MΩ	10 Ω	1 µA	0.05 + 5
10.0000 MΩ	100 Ω	0.5 µA	0.30 + 5
100.000 MΩ	1 kΩ	0.5 µA // 10 MΩ	3.00 + 8
<b>DC Current</b>			
20.0000 mA	100 nA	1 Ω	0.05 + 15
200.000 mA	1 µA	1 Ω	0.05 + 5
2.00000 A	10 µA	0.1 Ω	0.20 + 5
10.0000 A	100 µA	0.01 Ω	0.20 + 5
<b>Continuity</b>			
2000.00 Ω	10 mΩ	1 mA	0.05 + 5
<b>Diode Test</b>			
6.0000 V	100 µV	1 mA@ 6 V	0.05 + 15
<b>Capacitance</b>			
10.00 nF	0.01 nF	10 µA	2.0 + 10
100.0 nF	0.1 nF	10 µA	2.0 + 4
1.000 µF	0.001 µF	100 µA	2.0 + 4
10.00 µF	0.01 µF	1 mA	2.0 + 4
100.0 µF	0.1 µF	1 mA	2.0 + 4
<b>True RMS AC (or AC+DC – AC Coupled) Voltage</b>			
200.000 mV	1 µV	20 Hz to 45 Hz	1.0 + 100
		45 Hz to 10 kHz	0.3 + 100
		10 kHz to 30 kHz	1.5 + 300
		30 kHz to 100 kHz	5.0 + 300
2.00000 V to 750.00 V	10 µV to 10 mV	20 Hz to 45 Hz	1.0 + 100
		45 Hz to 10 kHz	0.2 + 100
		10 kHz to 30 kHz	1.0 + 100
		30 kHz to 100 kHz	3.0 + 200
<b>True RMS AC (or AC+DC – AC Coupled) Current</b>			
20.0000 mA to 2.00000 A	100 nA to 10 µA	20 Hz to 45 Hz	1.5 + 100
		45 Hz to 2 kHz	0.5 + 100
		2 kHz to 10 kHz	2.0 + 200
10.0000 A	100 µA	20 Hz to 45 Hz	1.5 + 100
		45 Hz to 2 kHz	1.0 + 100
		2 kHz to 10 kHz	-----
<b>Frequency</b>			
(Voltage) 10 Hz to 1 MHz	-----	-----	0.01 + 3
(Current) 20 Hz to 10 kHz	-----	-----	
<b>Temperature (Thermocouple)</b>			
-200 °C to 0 °C	0.01 °C	J / T / K	0.6 °C (typical)
0 °C to +300 °C			0.3 °C (typical)
<b>Display</b>			
4.3" TFT Graphic LCD			
<b>Interface</b>			
RS-232C, USB device (USBCDC & USBTMC), Digital I/O			
<b>Power Source</b>			
AC 100 V / 120 V / 220 V / 240 V ± 10 %, 50 Hz to 60 Hz ; Power Consumption Max. 30 VA			
<b>Dimensions (*4) &amp; Weight</b>			
268 mm x 107 mm x 302 mm ; Approx. 3.2 kg			

Specifications subject to change without notice.

