

GDM-9052 Specifications

The specifications (*1) apply when the GDM-9052 is powered on for at least 30 minutes under +18 °C to +28 °C.



Range (*2)	Resolution	Input Resistance etc.	Accuracy (*3) 1 Year (23 °C ± 5 °C)
DC Voltage			
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
Resistance			
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
DC Current			
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
Continuity			
2000.00 Ω	10 mΩ	1 mA	0.05 + 5
Diode Test			
6.0000 V	100 µV	1 mA@ 6 V	0.05 + 15
Capacitance			
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
True RMS AC (or AC+DC – AC Coupled) Voltage			
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	10 µV	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

20.0000 V	100 μV	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
200.000 V	1 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
750.00 V	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
True RMS AC (or AC+DC – AC Coupled) Current			
20.0000 mA	100 nA	20 Hz to 45 Hz	1.5 + 100
		45 Hz to 2 kHz	0.5 + 100
		2 kHz to 10 kHz	2.0 + 200
200.000 mA	1 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
2.00000 A	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	-----
Frequency			
(Voltage) 10 Hz to 1 MHz	-----	-----	0.01 + 3
(Current) 20 Hz to 10 kHz			
Temperature (Thermocouple)			
-200 °C to 0 °C	0.01 °C	J / T / K	0.6 °C (typical)
0 °C to +300 °C			0.3 °C (typical)
Display			
4.3” TFT Graphic LCD			
Interface			
RS-232C, USB device (USBCDC & USBTMC), Digital I/O			
Power Source			
AC 100 V / 120 V / 220 V / 240 V ± 10 %, 50 Hz to 60 Hz ; Power Consumption Max. 30 VA			
Dimensions & Weight			
268 (W) mm x 107 (H) mm x 302 (D) mm ; Approx. 3.2 kg			

1. All specifications are applicable to the main (1st) display only and warmed up for at least 30 minutes and operated in the slow rate.

2. 20 % overrange on all ranges, except 750 V / 10 A range

3. Accuracy: $\pm$ (% of Reading + Digits)