

GDM-8351 Specifications

The specifications apply when the GDM-8351 is powered on for at least 30 minutes under +20°C~+30°C.

Specification Function(*1)			
Range (*2)	Resolution	Input Resistance etc.	Accuracy(*3) 1 Year (23°C±5°C)
DC Voltage			
100.000 mV	1μV	10MΩ or >10GΩ	0.012 + 8
1.00000 V	10μV	10MΩ or >10GΩ	0.012 + 5
10.0000 V	100μV	11.1MΩ	0.012 + 5
100.000 V	1mV	10.1MΩ	0.012 + 5
1000.00 V	10mV	10MΩ	0.012 + 5
Resistance			
100.000 Ω	1mΩ	1mA	0.05 + 8
1.00000 kΩ	10mΩ	1mA	0.05 + 5
10.0000 kΩ	100mΩ	100μA	0.05 + 5
100.000 kΩ	1Ω	10μA	0.05 + 5
1.00000 MΩ	10Ω	1μA	0.05 + 5
10.0000 MΩ	100Ω	0.5μA	0.30 + 5
100.000 MΩ	1kΩ	0.5μA //10 MΩ	3.00 + 8
DC Current			
10.0000 mA	100nA	1Ω	0.05 + 15
100.000 mA	1μA	1Ω	0.05 + 5
1.00000 A	10μA	0.1Ω	0.20 + 5
10.0000 A	100μA	0.01Ω	0.20 + 5
Continuity			
1000.00 Ω	10mΩ	1mA	0.05 + 5
Diode Test			
6.0000 V	100μV	1mA@6V	0.05 + 15
Capacitance			
10.00 nF	0.01nF	10μA	2.0 + 10
100.0 nF	0.1nF	10μA	2.0 + 4
1.000 μF	0.001μF	100μA	2.0 + 4
10.00 μF	0.01μF	1mA	2.0 + 4
100.0 μF	0.1μF	1mA	2.0 + 4
True RMS AC (or AC+DC – AC Coupled) Voltage			
100.000 mV	1μV	20Hz – 45Hz	1.0 + 100
		45Hz – 10kHz	0.3 + 100
		10kHz – 30kHz	1.5 + 300
		30kHz – 100kHz	5.0 + 300
1.00000 V	10μV	20Hz – 45Hz	1.0 + 100
		45Hz – 10kHz	0.2 + 100
		10kHz – 30kHz	1.0 + 100
		30kHz – 100kHz	3.0 + 200
10.0000 V	100μV	20Hz – 45Hz	1.0 + 100
		45Hz – 10kHz	0.2 + 100
		10kHz – 30kHz	1.0 + 100
		30kHz – 100kHz	3.0 + 200
100.000 V	1mV	20Hz – 45Hz	1.0 + 100

		45Hz – 10kHz	0.2 + 100
		10kHz – 30kHz	1.0 + 100
		30kHz – 100kHz	3.0 + 200
750.00 V	10mV	20Hz – 45Hz	1.0 + 100
		45Hz – 10kHz	0.2 + 100
		10kHz – 30kHz	1.0 + 100
		30kHz – 100kHz	3.0 + 200
True RMS AC (or AC+DC – AC Coupled) Current			
10.0000 mA	100nA	20Hz – 45Hz	1.5 + 100
		45Hz – 2kHz	0.5 + 100
		2kHz – 10kHz	2.0 + 200
100.000 mA	1μA	20Hz – 45Hz	1.5 + 100
		45Hz – 2kHz	0.5 + 100
		2kHz – 10kHz	2.0 + 200
1.00000 A	10μA	20Hz – 45Hz	1.5 + 100
		45Hz – 2kHz	0.5 + 100
		2kHz – 10kHz	2.0 + 200
10.0000 A	100μA	20Hz – 45Hz	1.5 + 100
		45Hz – 2kHz	1.0 + 100
		2kHz – 10kHz	-----
Frequency			
(Voltage)10Hz – 1MHz	-----	-----	0.01 + 3
(Current)20Hz – 10kHz	-----	-----	
Temperature (Thermocouple)			
-200 °C ~ 0 °C	0.01 °C	J / T / K	0.4 °C (typical)
0 °C ~ +300 °C			0.2 °C (typical)
Display			
VFD, Tow Colors Display			
Interface			
RS-232C, USB device (USBCDC & USBTMC)			
Power Source			
AC 100 V / 120 V / 220 V / 240 V ±10%, 50-60Hz ; Power Consumption Max. 15VA			
Dimensions & Weight			
265(W) x 107(H) x 302(D) mm ; Approx. 2.9kg			

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 750V/10A range
3. Accuracy: ± (% of Reading + Digits)