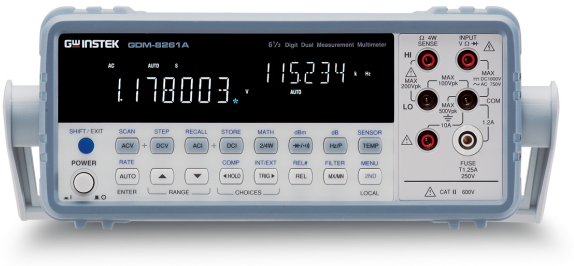
GDM-8261A Specifications

The specifications apply when the GDM-8261A is powered on for at least 60 minutes under +18°C~+28°C.



Note :

1. All specifications are ensured only under a single display.
2. Accuracy : ± (% of reading + % of range)
3. 20% over range on all ranges, except 1000Vdc, 750Vac and 10A.
4. Resistance is for 4-wire ohms function, or 2-wire ohms with REL on.
5. 750Vac range limited to 100kHz
6. AC Characteristics are for sinewave input > 5% of range.

Function	Range(3)	Resolution	Input Resistance etc.	24 Hour 23°C± 1°C	90 Day 23°C± 5°C	1 Year 23°C± 5°C	Temperature Coefficient 0°~ 18°C / 28°~ 55°C
DC Voltage	100.0000 mV	0.1µV	10MΩ or >10GΩ	0.0030 + 0.0030	0.0040 + 0.0035	0.0050 + 0.0035	0.0005 + 0.0005
	1.000000 V	1µV	10MΩ or >10GΩ	0.0015 + 0.0004	0.0020 + 0.0005	0.0035 + 0.0005	0.0005 + 0.0001
	10.00000 V	10µV	11.11MΩ±1%	0.0020 + 0.0006	0.0030 + 0.0007	0.0048 + 0.0007	0.0005 + 0.0001
	100.0000 V	0.1mV	10.1MΩ±1%	0.0020 + 0.0006	0.0035 + 0.0006	0.0081 + 0.0006	0.0005 + 0.0001
	1000.000 V	1mV	10.1MΩ±1%	0.0025 + 0.0006	0.0044 + 0.0010	0.0090 + 0.0010	0.0005 + 0.0001
Resistance (4)	100.0000 Ω	100µΩ	1 mA	0.0030 + 0.0030	0.008 + 0.004	0.010 + 0.004	0.0008 + 0.0005
	1.000000 kΩ	1mΩ	1 mA	0.0020 + 0.0005	0.008 + 0.001	0.010 + 0.001	0.0008 + 0.0001
	10.00000 kΩ	10mΩ	100µA	0.0020 + 0.0005	0.008 + 0.001	0.010 + 0.001	0.0008 + 0.0001
	100.0000 kΩ	100mΩ	10µA	0.0020 + 0.0005	0.008 + 0.001	0.010 + 0.001	0.0008 + 0.0001
	1.000000 MΩ	1µΩ	3.5µA	0.0020 + 0.0010	0.008 + 0.001	0.010 + 0.001	0.0010 + 0.0002
	10.00000 MΩ	10Ω	350nA	0.0150 + 0.0010	0.020 + 0.001	0.040 + 0.001	0.0030 + 0.0004
	100.0000 MΩ	100Ω	350 nA//10 MΩ	0.3000 + 0.0100	0.800 + 0.010	0.800 + 0.010	0.1500 + 0.0002
DC Current	100.0000 µA	100pA	< 0.015 V	0.010 + 0.020	0.04 + 0.025	0.05 + 0.025	0.002 + 0.0030
	1.000000 mA	1nA	< 0.15 V	0.007 + 0.005	0.03 + 0.005	0.05 + 0.005	0.002 + 0.0005
	10.00000 mA	10nA	< 0.07 V	0.005 + 0.010	0.03 + 0.020	0.05 + 0.020	0.002 + 0.0020
	100.0000 m A	0.1µA	< 0.7 V	0.010 + 0.004	0.03 + 0.005	0.05 + 0.005	0.002 + 0.0005
	1.000000 A	1µA	< 0.8 V	0.050 + 0.006	0.08 + 0.010	0.10 + 0.010	0.005 + 0.0010
	10.00000 A	10µA	< 0.5 V	0.100 + 0.008	0.12 + 0.008	0.15 + 0.008	0.005 + 0.0008
Continuity	1000.000 Ω	0.001Ω	1 mA	0.002 + 0.030	0.008 + 0.030	0.010 + 0.030	0.001 + 0.002
Diode Test	1.000000 V	1µV	1 mA	0.002 + 0.010	0.008 + 0.020	0.010 + 0.020	0.001 + 0.002
True RMS AC Voltage (6)	100.0000 mV	0.1µV	3Hz - 5Hz	1.00 + 0.03	1.00 + 0.04	1.00 + 0.04	0.100 + 0.004
			5Hz - 10Hz	0.35 + 0.03	0.35 + 0.04	0.35 + 0.04	0.035 + 0.004
			10Hz - 20kHz	0.04 + 0.03	0.05 + 0.04	0.06 + 0.04	0.005 + 0.004
			20kHz - 50kHz	0.10 + 0.05	0.11 + 0.05	0.12 + 0.05	0.011 + 0.005
			50kHz - 100kHz	0.55 + 0.08	0.60 + 0.08	0.60 + 0.08	0.060 + 0.008
			100kHz -300kHz	4.00 + 0.50	4.00 + 0.50	4.00 + 0.50	0.200 + 0.020

	1.000000 V to 750.000 V (5)	1µV ~ 1mV	3Hz - 5Hz	1.00 + 0.02	1.00 + 0.03	1.00 + 0.03	0.100 + 0.003
			5Hz - 10Hz	0.35 + 0.02	0.35 + 0.03	0.35 + 0.03	0.035 + 0.003
			10Hz - 20kHz	0.04 + 0.02	0.05 + 0.03	0.06 + 0.03	0.005 + 0.003
			20kHz - 50kHz	0.10 + 0.04	0.11 + 0.05	0.12 + 0.05	0.011 + 0.005
			50kHz - 100kHz	0.55 + 0.08	0.60 + 0.08	0.60 + 0.08	0.060 + 0.008
			100kHz -300kHz	4.00 + 0.50	4.00 + 0.50	4.00 + 0.50	0.200 + 0.020
True RMS AC Current (6)	1.000000 mA	1nA	3Hz – 5Hz	1.00 + 0.04	1.00 + 0.04	1.00 + 0.04	0.100 + 0.006
			5Hz – 10Hz	0.30 + 0.04	0.30 + 0.04	0.30 + 0.04	0.035 + 0.006
			10Hz – 5kHz	0.10 + 0.04	0.10 + 0.04	0.10 + 0.04	0.015 + 0.006
			5kHz – 10kHz	0.20 + 0.25	0.20 + 0.25	0.20 + 0.25	0.030 + 0.006
	10.00000 mA	10nA	3Hz – 5Hz	1.10 + 0.06	1.10 + 0.06	1.10 + 0.06	0.200 + 0.006
			5Hz – 10Hz	0.35 + 0.06	0.35 + 0.06	0.35 + 0.06	0.100 + 0.006
			10Hz – 5kHz	0.15 + 0.06	0.15 + 0.06	0.15 + 0.06	0.015 + 0.006
			5kHz – 10kHz	0.35 + 0.70	0.35 + 0.70	0.35 + 0.70	0.030 + 0.006
	100.0000 mA	100nA	3Hz – 5Hz	1.00 + 0.04	1.00 + 0.04	1.00 + 0.04	0.100 + 0.006
			5Hz – 10Hz	0.30 + 0.04	0.30 + 0.04	0.30 + 0.04	0.035 + 0.006
			10Hz – 5kHz	0.10 + 0.04	0.10 + 0.04	0.10 + 0.04	0.015 + 0.006
			5kHz – 10kHz	0.20 + 0.25	0.20 + 0.25	0.20 + 0.25	0.030 + 0.006
	1.000000 A	1µA	3Hz – 5Hz	1.00 + 0.04	1.00 + 0.04	1.00 + 0.04	0.100 + 0.006
			5Hz – 10Hz	0.30 + 0.04	0.30 + 0.04	0.30 + 0.04	0.035 + 0.006
			10Hz – 5kHz	0.10 + 0.04	0.10 + 0.04	0.10 + 0.04	0.015 + 0.006
			5kHz – 10kHz	0.35 + 0.70	0.35 + 0.70	0.35 + 0.70	0.030 + 0.006
	10.00000 A	10µA	3Hz – 5Hz	1.10 + 0.06	1.10 + 0.06	1.10 + 0.06	0.100 + 0.006
			5Hz – 10Hz	0.35 + 0.06	0.35 + 0.06	0.35 + 0.06	0.035 + 0.006
			10Hz – 5kHz	0.15 + 0.06	0.15 + 0.06	0.15 + 0.06	0.015 + 0.006
			5kHz – 10kHz	0.35 + 0.70	0.35 + 0.70	0.35 + 0.70	0.030 + 0.006
Frequency / Period	100.0000mV to 750.000V (5)	—	3Hz - 5Hz	0.1	0.1	0.1	0.005
			5Hz - 10Hz	0.05	0.05	0.05	0.005
			10Hz - 40Hz	0.03	0.03	0.03	0.001
			40Hz -300kHz	0.006	0.01	0.01	0.001
Temperature (RTD)	-200 °C ~ 600 °C	0.002 °C	—	—	—	0.06 °C (typical)	0.005 °C / °C (typical)
Temperature (Thermocouple)	-200 °C ~ + 1372 °C	0.003 °C	J / K / N / T / E	—	—	0.2 °C (typical)	0.004 °C / °C (typical)
	-50 °C ~ + 1820 °C	0.01 °C	R / S / B	—	—	1 °C	0.14 °C / °C

Display	VFD, Tow Colors Display
Interface	RS -232C, USB, Digital I/O
Power Source	AC 100 V / 120 V / 220 V / 240 V ±10%
Power Line Frequency	45 Hz to 66 Hz and 360 Hz to 440 Hz
Power Consumption	Max. 25VA
Dimensions	265(W) x 107(H) x 350(D) mm
Weight	Approx. 3.1kg without option