

GDM-360 (NEW)

DC Voltage

Range	Resolution	Accuracy	Input Impedance	Fixed Value Input
60mV	0.01mV	±(0.8%+3)	Around >3000MΩ	1000V dc/ac (Vpp)
600mV	0.1mV	±(0.8%+3)		
6V	0.001V	±(0.5%+1)	Around 10MΩ	
60V	0.01V			
600V	0.1V			
1000V	1V	±(1.0%+3)		

AC Voltage (True rms)

Range	Resolution	Accuracy		Input Impedance	Fixed Value Input
		45~1kHz	>1kHz~3kHz		
60mV	0.01mV	±(1.2%+5)	±(2.0%+5)	Around >3000MΩ	1000V dc/ 750Vrms ac
600mV	0.1mV				
6V	0.001V	±(1.0%+3)	±(1.5%+5)	Around 10MΩ	
60V	0.01V				
600V	0.1V				
750V	1V	±(1.2%+5)	±(3.0%+5)		

• GDM-360:

- True RMS is applicable from 10% of range to 100% of range.
- AC crest factor can be up to 3.0 except 750V where it is 1.5.
- A residual reading of 10 digits with test leads shorted, will not

DC Current

Range	Resolution	Accuracy	Overload Protection
600μA	0.1μA	±(1.0%+3)	Fuse 1: F600mA H 1000V,φ6.35 x 31.8mm
6000μA	1μA		
60mA	0.01mA		
600mA	0.1mA		
6A	0.001A	±(1.2%+5)	Fuse 2: F10A H 1000V,φ10.3 x 38.1mm
10A	0.01A		

Remarks:

- When ≤ 5A: Continuous measurement is allowed.
- When > 5A: Continuous measurement for less than 10 seconds with intervals of more than 15 minutes between measurements.

GDM-396 (OLD)

DC Voltage

Range	Resolution	Accuracy	Input Impedance	Fixed Value Input
400mV	0.1mV	±(0.8%+3)	Around 10MΩ	1000V dc/750Vac (rms)
4V	0.001V	±(0.8%+1)		
40V	0.01V			
400V	0.1V			
1000V	1V		±(1.0%+3)	

AC Voltage (True rms)

Range	Resolution	Accuracy		Input Impedance	Fixed Value Input
		40~400Hz			
4V	0.001V	±(1.0%+5)		Around 10MΩ	1000V dc/ 750Vrms ac
40V	0.01V				
400V	0.1V				
750V	1V				

• GDM-396:

- True RMS is applicable from 10% of range to 100% of range.
- A residual reading of 10 digits with test leads shorted, will not affect stated accuracy.

DC Current

Range	Resolution	Accuracy	Overload Protection
400μA	0.1μA	±(1.0%+2)	Fuse 1: F500mA H 250V,φ5 x 20mm
4000μA	1μA		
40mA	0.01mA	±(1.2%+3)	
400mA	0.1mA		
4A	0.001A	±(1.5%+5)	Fuse 2: F10A H 250V,φ5 x 20mm
10A	0.01A		

Remarks:

-
- When under A range: Continuous measurement for less than 10 seconds with intervals of more than 15 minutes between measurements.

AC Current (True rms)

Range	Resolution	Accuracy		Overload Protection
		45~1kHz	1k~3kHz	
600μA	0.1μA	±(1.2%+5)	±(1.5%+5)	Fuse 1: F600mA H 1000V,φ6.35 x 31.8mm
6000μA	1μA			
60mA	0.01mA	±(1.5%+5)	±(2.0%+5)	
600mA	0.1mA			
6A	0.001A	±(2.0%+5)	±(3.0%+5)	Fuse 2: F10A H 1000V,φ10.3 x 38.1mm
10A	0.01A			

Remarks:

- When ≤ 5A: Continuous measurement is allowed.
- When > 5A: Continuous measurement for less than 10 seconds with intervals of more than 15 minutes between measurements.
- GDM-360:
 - True RMS is applicable from 10% of range to 100% for range.
 - A residual reading of 10 digits with test leads shorted, will not

AC Current (True rms)

Range	Resolution	Accuracy		Overload Protection
		50~400Hz		
400μA	0.1μA	±(1.5%+5)		Fuse 1: F500mA H 250V,φ5 x 20mm
4000μA	1μA			
40mA	0.01mA	±(2.0%+5)		
400mA	0.1mA			
4A	0.001A	±(2.5%+5)		Fuse 2: F10A H 250V,φ5 x 20mm
10A	0.01A			

Remarks:

-
- When under A range: Continuous measurement for less than 10 seconds with intervals of more than 15 minutes between measurements.
- GDM-396:
 - True RMS is applicable from 10% of range to 100% for range.
 - A residual reading of 10 digits with test leads shorted, will not

Resistance

Range	Resolution	Accuracy	Overload Protection	Remark
600Ω	0.1Ω	±(1.2%+2)	1000V dc / ac (Vpp)	When measuring below 2kΩ, apply REL Δ to ensure measurement accuracy.
6kΩ	0.001kΩ			
60kΩ	0.01kΩ	±(1.0%+2)		
600kΩ	0.1kΩ			
6MΩ	0.001MΩ	±(1.2%+2)		
60MΩ	0.01MΩ	±(1.5%+2)		

Resistance

Range	Resolution	Accuracy	Overload Protection	Remark
400Ω	0.1Ω	±(1.2%+2)	1000V dc	When measuring under 400Ω, apply REL Δ to ensure measurement accuracy.
4kΩ	0.001kΩ			
40kΩ	0.01kΩ	±(1.0%+2)		
400kΩ	0.1kΩ			
4MΩ	0.001MΩ	±(1.2%+2)		
40MΩ	0.01MΩ	±(1.5%+2)		

Capacitance

Range	Resolution	Accuracy	Overload Protection	Remark
40nF	0.01nF	±(3.0%+5)	1000V dc / ac (Vpp)	There is around 10nF residual reading when the circuit is open
400nF	0.1nF			
4μF	0.001μF			
40μF	0.01μF			
400μF	0.1μF			
4000μF	1μF	unspecified		

Capacitance

Range	Resolution	Accuracy	Overload Protection	Remark
40nF	0.01nF	±(3.0%+10) with REL	1000V dc	There is around 10nF residual reading when the circuit is open
400nF	0.1nF			
4μF	0.001μF	±(3.0%+5)		
40μF	0.01μF			
100μF	0.1μF	±(4.0%+5)		

Frequency

Model	Range	Accuracy	Maximum Resolution
Frequency	10Hz~10MHz	±(0.1%+4)	0.01Hz
Duty Cycle	0.1%~999.9%	unspecified	0.1%

- Overload Protection: 1000Vdc/ ac (Vpp)
- Input Amplitude: (DC offset is zero)
 - GDM-360:
 - When 10Hz ~ 10MHz: 200mV ≤a ≤ 30Vrms
 - When measuring on line frequency or duty cycle under AC Voltage and Current measurement mode, the input amplitude and frequency response must satisfy the following requirement:
 - Input amplitude ≥range x 30%
 - Frequency response: GDM-360: ≤ 1kHz

Diode Test

Model	Resolution	Remarks	Overload Protection
GDM-360	0.001V	Open circuit voltage around 2.8V	1000Vdc / ac (Vpp)

Continuity Test

Model	Resolution	Overload Protection
GDM-360	0.1Ω	1000Vdc / ac (Vpp)

- GDM-360:
 - Open circuit voltage is around 0.45V.
 - Broken circuit resistance value is around > 35Ω, the buzzer does not beep.
 - Good circuit resistance value is ≤10Ω, the buzzer beeps continuously.

Frequency / Duty Cycle

Model	Range	Accuracy	Maximum Resolution
Frequency	10Hz~10MHz	±(0.1%+3)	1Hz
Duty Cycle	0.1%~999.9%	unspecified	0.1%

- Overload Protection: 1000Vp
- Sensitivity:
 - When ≤1MHz: ≤ 300mVrms
 - When >1MHz: ≤ 600mVrms

Diode Test

Model	Resolution	Remarks	Overload Protection
GDM-396	0.001V	Open circuit voltage around 1.48	1000Vp

Continuity Test

Model	Resolution	Overload Protection
GDM-396	0.1Ω	1000Vp

- GDM-396:
 - Open circuit voltage is around 0.45V.
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 - Good circuit resistance value is ≤70Ω, the buzzer beeps continuously.

Temperature Measurement

Temperature Measurement

Range	Resolution	Accuracy	Overload Protection
°C	1°C	(-40~0°C): ±(3%+9)	Fuse : F500mA H 250V,φ5 x 20mm
		(> 0~400°C): ±(1%+7)	
		(> 400~1000°C): ±(2.0%+10)	

RS232C Serial Port

RS232C Serial Port

Other Functions

MODEL	GDM-360
Max. Display	6000
Auto Ranging	✓
Analog Bar	✓
True RMS	✓
Display Backlight	✓
Fused 10A Range	✓
Auto Power off	✓
Diode	✓
Continuity	✓
Temperature	✓
Duty Cycle(%)	✓
Transistor (hFE)	✓
REL	✓
Data Hold	✓
Peak Hold	✓
MAX MIN	✓
RS232C	✓



Other Functions:

MODEL	GDM-396
Max. Display	3999
Auto Ranging	✓
Analog Bar	✓
True RMS	✓
Display Backlight	✓
Fused 10A Range	✓
Auto Power off	✓
Diode	✓
Continuity	✓
Temperature	✓
Duty Cycle(%)	✓
Transistor (hFE)	✓
REL	✓
Data Hold	✓
Peak Hold	✓
MAX MIN	✓
RS232C	✓

