GDM-360 (NEW)	GDM-396 (OLD)

DC Voltage (GDM-360)

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)	Around >3000MΩ	
6V	0.001V	±(0.5%+1)	Around 10MΩ	
60V	0.01V	±(0.5%+1)	Around 10MΩ	
600V	0.1V	±(0.5%+1)	Around 10MΩ	
1000V	1V	±(1.0%+3)	Around 10MΩ	

DC Voltage (GDM-396)

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)	Around 10MΩ	
40V	0.01V	±(0.8%+1)	Around 10MΩ	
400V	0.1V	±(0.8%+1)	Around 10MΩ	
1000V	1V	±(1.0%+3)	Around 10MΩ	

AC Voltage (True rms) (GDM-360)

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

- 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

AC Voltage (True rms) (GDM-396)

Range	Resolution	Accuracy 40~400Hz	Input Impedance	Fixed Value Input
4V	0.001V	±(1.0%+5)	Around 10MΩ	1000V dc/750Vrms ac
40V	0.01V	±(1.0%+5)	Around 10MΩ	
400V	0.1V	±(1.0%+5)	Around 10MΩ	
750V	1V	±(1.2%+5)	Around 10MΩ	

- 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 (GDM-360)

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

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.

DC Current (GDM-396)

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

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	±(4.0%+5)		
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

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-360	0.001V	Open circuit voltage around 2.8V	1000Vdc / ac (Vpp)

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-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.

Continuity Test

Model	Resolution	Overload Protection
GDM-396	0.1Ω	1000Vp

- GDM-396:
  - ➢ Open circuit voltage is around 0.45V.
  - ➢
  - ➢ 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) (>0~400˚C): ±(1%+7) (>400~1000˚C): ±(2.0%+10)	Fuse : F500mA H 250V,φ5 x 20mm

RS232C Serial Port	RS232C Serial Port
Other Functions	Other Functions:

Other Functions		Other Functions:	
MODEL	GDM-360	MODEL	GDM-396
Max. Display	6000	Max. Display	3999
Auto Ranging	√	Auto Ranging	√
Analog Bar	√	Analog Bar	
True RMS	√	True RMS	√
Display Backlight	√	Display Backlight	√
Fused 10A Range	√	Fused 10A Range	√
Auto Power off	√	Auto Power off	
Diode	√	Diode	√
Continuity	√	Continuity	√
Temperature		Temperature	√
Duty Cycle(%)	√	Duty Cycle(%)	√
Transistor (hFE)		Transistor (hFE)	
REL	√	REL	√
Data Hold	√	Data Hold	√
Peak Hold		Peak Hold	
MAX MIN	√	MAX MIN	
RS232C	√	RS232C	√