

Hand-held Digital Multimeter

GW INSTEK

Simply Reliable

GDM-500 Series

Inform in Advance



GDM-541

- * 22000 Counts Auto/Manual Ranging
- * 46 segments Analogue Bar
- * ACV Measurement up to 1000V
- * AC+DC Voltage Measurement
- * Current Measurement up to 20A
- * Transistor (hFE) Measurement
- * Audible / Visual Alarm when Overload
- * True RMS / USB interface



GDM-533

- * 6000 Counts Auto/Manual Ranging
- * 31 segments Analogue Bar
- * LoZ ACV Measurement
- * ACV Measurement up to 1000V
- * Current Measurement up to 20A
- * Temperature Measurement
- * Audible / Visual Alarm when Overload
- * True RMS / USB interface



GDM-532

- * 9999 Counts Auto/Manual Ranging
- * Display Backlight / Auto Power Off
- * Continuity Beeper/Diode Test
- * Temperature Measurement
- * Non-Contact Voltage (NCV) Detection
- * Data Hold and Relative Mode



GDM-531

- * 6000 Counts Manual Ranging
- * Display Backlight / Auto Power Off
- * Capacitance Measurement
- * Non-Contact Voltage (NCV) Detection
- * Data Hold
- * Audible / Visual Alarm when Overload

MODEL	GDM-541	GDM-533	GDM-532	GDM-531
Max. Display	22000	6000	9999	6000
Auto Ranging	✓	✓	✓	
Analog Bar	✓	✓		
True RMS	✓	✓	✓	
Display Backlight	✓	✓	✓	✓
Auto Power off	✓	✓	✓	✓
Curr. Range Protection	PTS & Fuse	PTS & Fuse	Fuse	Fuse
DC Voltage	1000V	1000V	999.9V	600V
AC Voltage	1000V	1000V	999.9V	600V
DC Current	20A	20A	9.99A	10A
AC Current	20A	20A	9.99A	
Resistance	220MΩ	60MΩ	99.99MΩ	60MΩ
Capacitance	220mF	60mF	9.999mF	9.999mF
Frequency	220MHz	10MHz	9.9MHz	
Diode	✓	✓	✓	✓
Continuity	✓	✓	✓	✓
Temperature		✓	✓	
Duty Cycle (%)	✓	✓	✓	
Transistor (hFE)	✓			
NCV Function	✓	✓	✓	✓
REL	✓	✓	✓	
Data Hold	✓	✓	✓	✓
Peak Hold	✓	✓		
MAX MIN	✓	✓		
LoZ ACV		✓		
LPF ACV	✓			
Audible / Visual Alarm	✓	✓		✓
AC+DC Measurement	✓			
Interface	USB	USB		
Safety Rating	CAT III 1000V CAT IV 600V	CAT III 1000V CAT IV 600V	CAT II 1000V CAT III 600V	CAT III 600V

Specifications subject to change without notice. DM-500GDTDH

ORDERING INFORMATION

GDM-541	22000 Counts Hand-Held DMM with True RMS Measurement and USB Interface
GDM-533	6000 Counts Hand-Held DMM with True RMS Measurement and USB Interface
GDM-532	9999 Counts Hand-Held DMM with True RMS Measurement
GDM-531	6000 Counts Hand-Held DMM

ACCESSORIES

USB cable & Adapter socket (GDM-541/533 only), Battery, User manual, Test leads, K-type thermocouple (GDM-533/532 only)

FREE DOWNLOAD

GDM-541 & GDM-533 PC Software Remote software

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USB

PC Software

GDM-541

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USB

PC Software

GDM-533

- * 6000 Counts Auto/Manual Ranging
- * 31 segments Analogue Bar
- * LoZ ACV Measurement
- * ACV Measurement up to 1000V
- * Current Measurement up to 20A
- * Temperature Measurement
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GDM-532

- * 9999 Counts Auto/Manual Ranging
- * Display Backlight / Auto Power Off
- * Continuity Beeper/Diode Test
- * Temperature Measurement
- * Non-Contact Voltage (NCV) Detection
- * Data Hold and Relative Mode



GDM-531

- * 6000 Counts Manual Ranging
- * Display Backlight / Auto Power Off
- * Capacitance Measurement
- * Non-Contact Voltage (NCV) Detection
- * Data Hold
- * Audible / Visual Alarm when Overload

SPECIFICATIONS

DC VOLTAGE

Range	220.00mV, 2.2000V, 22.000V, 220.00V, 1000.0V (GDM-541) 60.00mV, 600.0mV, 6.000V, 60.00V, 600.0V, 1000V (GDM-533) 9.999mV, 99.99mV, 999.9mV, 9.999V, 99.99V, 999.9V (GDM-532) 600.0mV, 6000mV, 60.00V, 600.0V (GDM-531)
Best Accuracy	$\pm(0.05\%rdg + 5 \text{ digits})$ for GDM-541; $\pm(0.5\%rdg + 3 \text{ digits})$ for GDM-533 $\pm(0.5\%rdg + 3 \text{ digits})$ for GDM-532; $\pm(0.7\%rdg + 3 \text{ digit})$ for GDM-531
Input Impedance	10 M Ω (At mV range : 1G Ω for GDM-541/533; 3G Ω for GDM-532)

AC VOLTAGE

Range	220.00mV, 2.2000V, 22.000V, 220.00V, 1000.0V (GDM-541) 60.00mV, 600.0mV, 6.000V, 60.00V, 600.0V, 1000V (GDM-533) 9.999mV, 99.99mV, 999.9mV, 9.999V, 99.99V, 999.9V (GDM-532) 600.0V (GDM-531)
Best Accuracy	$\pm(0.8\%rdg + 10 \text{ digits})$ for GDM-541; $\pm(1.0\%rdg + 3 \text{ digits})$ for GDM-533 $\pm(0.8\%rdg + 3 \text{ digits})$ for GDM-532; $\pm(1.2\%rdg + 3 \text{ digits})$ for GDM-531
Frequency Response	40Hz-10kHz for GDM-541; 40Hz-1kHz for GDM-533 45Hz-400Hz for GDM-532; 40Hz-400Hz for GDM-531
Input Impedance	10 M Ω

DC CURRENT

Range	220.00 μ A, 2200.0 μ A, 22.000mA, 220.00mA, 20.000A (GDM-541) 600.0 μ A, 6000 μ A, 60.00mA, 600.0mA, 6.000A, 20.00A (GDM-533) 999.9 μ A, 999.9mA, 9.999A (GDM-532) 600.0 μ A, 60.00mA, 600.0mA, 10.00A (GDM-531)
Best Accuracy	$\pm(0.5\%rdg + 10 \text{ digits})$ for GDM-541; $\pm(1.0\%rdg + 2 \text{ digits})$ for GDM-533 $\pm(0.8\%rdg + 3 \text{ digits})$ for GDM-532; $\pm(1.0\%rdg + 3 \text{ digits})$ for GDM-531

AC CURRENT

Range	220.00 μ A, 2200.0 μ A, 22.000mA, 220.00mA, 20.000A (GDM-541) 600.0 μ A, 6000 μ A, 60.00mA, 600.0mA, 6.000A, 20.00A (GDM-533) 999.9 μ A, 999.9mA, 9.999A (GDM-532)
Best Accuracy	$\pm(0.8\%rdg + 10 \text{ digits})$ for GDM-541; $\pm(1.2\%rdg + 5 \text{ digits})$ for GDM-533 $\pm(1.0\%rdg + 3 \text{ digits})$ for GDM-532

RESISTANCE

Range	220.00 Ω , 2.2000k Ω , 22.000k Ω , 220.00k Ω , 2.2000M Ω , 22.000M Ω , 220.00M Ω (GDM-541) 600.0 Ω , 6.000k Ω , 60.00k Ω , 600.0k Ω , 6.000M Ω , 60.00M Ω (GDM-533) 999.9 Ω , 9.999k Ω , 99.99k Ω , 999.9k Ω , 9.999M Ω , 99.99M Ω (GDM-532) 600.0 Ω , 6000 Ω , 60.00k Ω , 600.0k Ω , 60.00M Ω (GDM-531)
Best Accuracy	$\pm(0.5\%rdg + 10 \text{ digits})$ for GDM-541; $\pm(1.0\%rdg + 2 \text{ digit})$ for GDM-533 $\pm(0.8\%rdg + 2 \text{ digits})$ for GDM-532; $\pm(0.8\%rdg + 2 \text{ digits})$ for GDM-531

CONTINUITY BEEPER

Buzzer sounds if conductance less than 50 Ω for GDM-541/533
Buzzer sounds if conductance less than 30 Ω for GDM-532
Buzzer sounds if conductance less than 10 Ω for GDM-531

DIODE TEST

Open Circuit Voltage GDM-541/533 : 3V (Approx.); GDM-532 : 3.3V (Approx.); GDM-531 : 2.1V (Approx.)

CAPACITANCE

Range	22.000nF, 220.00nF, 2.2000 μ F, 22.000 μ F, 220.00 μ F, 2.2000mF, 22.000mF, 220.00mF (GDM-461) 60.00nF, 600.0nF, 6.000 μ F, 60.00 μ F, 600.0 μ F, 6.000mF, 60.00mF (GDM-533) 9.999nF, 99.99nF, 999.9nF, 9.999 μ F, 99.99 μ F, 999.9 μ F, 9.999mF (GDM-532/531)
Best Accuracy	$\pm(3.0\%rdg + 5 \text{ digits})$ for GDM-541/533; $\pm(4.0\%rdg + 5 \text{ digits})$ for GDM-532/531

FREQUENCY

Range	10Hz ~ 220MHz (GDM-541); 10Hz ~ 10MHz (GDM-533); 99.99Hz ~ 9.999MHz (GDM-532)
Best Accuracy	$\pm(0.01\%rdg + 5 \text{ digits})$ for GDM-541; $\pm(0.1\%rdg + 4 \text{ digits})$ for GDM-533 $\pm(0.1\%rdg + 5 \text{ digits})$ for GDM-532

TEMPERATURE

Range	-40 $^{\circ}$ C ~ 1000 $^{\circ}$ C / -40 $^{\circ}$ F ~ 1832 $^{\circ}$ F
Best Accuracy	$\pm(1.0\%rdg + 3 \text{ }^{\circ}$ C) for GDM-533; $\pm(1.0\%rdg + 5 \text{ }^{\circ}$ C) for GDM-532 $\pm(1.0\%rdg + 4 \text{ }^{\circ}$ F) for GDM-533; $\pm(1.5\%rdg + 5 \text{ }^{\circ}$ F) for GDM-532

SPECIAL FUNCTION

Auto Ranging (GDM-541/533/532); True RMS (GDM-541/533/532); Analog Bar (GDM-541/533); USB (GDM-541/533)
Display Backlight (GDM-541/533/531); NCV Function (GDM-541/533/531); Audible / Visual Alarm (GDM-541/533/531)
AC+DC Voltage (GDM-541); LPF ACV (GDM-541); hFE Test (GDM-541); LoZ ACV (GDM-533)

LCD DISPLAY

22000 counts (GDM-541), 6000 counts (GDM-533/531), 9999 counts (GDM-532)

POWER SOURCE

1.5V AAA x 4 (GDM-541/533); 1.5V AAA x 3 (GDM-532); 1.5V AAA x 2 (GDM-531)

DIMENSIONS & WEIGHT

89(W) x 186(H) x 49(D) mm, Approx. 400g (GDM-541/533)
81(W) x 169(H) x 46(D) mm, Approx. 400g (GDM-532)
76.5(W) x 155(H) x 49(D) mm, Approx. 255g (GDM-531)

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