



GW Instek GDM-8255A/8251A portable precision multimeters engage with 5 1/2 digits, dual-display, 0.012% high DC voltage accuracy and various advanced measuring function to make electrical relative signal measurement faster and easier.

In addition, the standard RS-232 and USB device make the GDM-8255A/8251A an ideal tool and inexpensive solution for field service, development/maintenance, education and ATE system applications.

Various Measuring Functions

GDM-8255A/ 8251A provide 9 major measuring functions such as DCV/ACV, DCI/ACI, 2w/4w Resistance, Diode, Frequency, Continuity test and Temperature. The 0.012% DC voltage accuracy provides user the best measuring precision at the DC voltage applications.

In addition, there are several advanced measuring functions such as Max, Min, dB, dBm, REL/REL#, Hold, Compare and Math functions to enhance the serviceability of measuring results.

Combinational Dual Display

The GDM-8255A/ 8251A offer varieties of dual display combinations with main measurement function which allows the GDM-8255A/8251A to measure two properties of input signal. The dual display function can save customers measuring time when dealing with applications require multiple parameters simultaneously.

Standard Multiple Interfaces

GDM-8255A/ 8251A provide the standard multiple interfaces for PC connection: RS232C and USB device port. Unlike the common RS232 transfer speed, the GDM-8255A/8251A even raises the baud rate up to 115200 which is 12 times faster.

It makes the command or data flow faster and smoother.

In addition, the digital I/O terminal outputs the result of comparison measurements to control external devices for ATE applications. By providing an independent VCC for the terminal, the digital I/O outputs can also be used as power source for TTL or CMOS logics.

Convenient Remote Control & Data Capture

For a convenient remote control and a long data capture, the GDM-8255A/8251A accompanies free software, DMM-Viewer. This software allows users to remotely control the GDM-8255A/8251A without entering extra commands. Besides, the software interface and even the measurement method resemble those of GDM-8255A/GDM-8251A front panel, thus guaranteeing safe operation and shortened training and program development time.

For data capturing through a PC, the software allows users to observe measuring result before saving it as a file for further study. In addition, the saved data can be reloaded for converting into a graph. With the DMM-Viewer PC software, the user operation of GDM-8255A/8251A can be much more effective.

Good Training tool for Education

The PC software, DMM-Viewer, is designed using a graphical user interface. With this kind design, users can easily operate as they work with unit. Besides, the DMM-Viewer could be operated as a training tool while it dose not communicate with GDM-8251A/8255A. It is beneficial for a class teaching of digital multimeter.

GDM-8255A (199999 Counts) GDM-8251A (120000 Counts)

FEATURES

- GDM-8255A : 199999 Counts Display
GDM-8251A : 120000 Counts Display
- VFD , Two Colors Display
- Auto/Manual Ranging
- 2/4 Wire Resistance Measurement
- Temperature Measurement
- True RMS (AC, AC+DC)
- Selectable Measurement Rate
- Frequency Measurement
- Max./Min., REL, dBm, Compare, Math, Store, Recall, dB

APPLICATIONS

- Products maintenance & development
- Circuit repair & debug
- Auto test equipment
- Education experiment & training

SPECIFICATIONS

		GDM-8255A	GDM-8251A
FULL SCALE		199999 Counts	120000 Counts
SAMPLE RATE		Slow : 5 1/2 digits, 10 readings/second Medium : 4 1/2 digits, 30 readings/second Fast : 3 1/2 digits, 60 readings/second	
DC VOLTAGE	Range Accuracy Input Impedance	100mV, 1V, 10V, 100V, 1000V 5 ranges \pm (0.012% rdg + 5 digits) 1.1M Ω	
AC VOLTAGE True RMS	Range Accuracy Input Impedance	100mV, 1V, 10V, 100V, 750V 5 ranges 20Hz~45Hz : \pm (1% rdg + 100 digits) 45Hz ~ 10kHz : \pm (0.2% rdg + 100 digits) 10kHz ~ 30kHz : \pm (1% rdg + 100 digits) 30kHz~100kHz : \pm (3% rdg + 200 digits) 10M Ω in parallel with approx. 100pF	
DC CURRENT	Range Accuracy	10mA, 100mA, 1A, 10A 4 ranges 10mA , 100mA : \pm (0.05% rdg + 15 digits) 1A, 10A range : \pm (0.2% rdg + 5 digits)	
AC CURRENT True RMS	Range Accuracy	10mA, 100mA, 1A, 10A 4 ranges 10mA , 100mA range : 20Hz ~ 50Hz : \pm (1.5% rdg + 100 digits) 50Hz ~ 10kHz : \pm (0.5% rdg + 100 digits) 10kHz~20kHz : \pm (2% rdg + 200 digits) 1A , 10A range : 50Hz ~ 10kHz : \pm (1% rdg + 100 digits)	
RESISTANCE	Range 2W Accuracy 4W Accuracy	100 Ω , 1k Ω , 10k Ω , 100k Ω , 1M Ω , 10M Ω , 100M Ω 7 ranges 100 Ω range : \pm (0.1% rdg + 8digits) (*); 1k Ω range : \pm (0.08% rdg + 5 digits) (*); 10k Ω ~ 1M Ω 3 ranges : \pm (0.06% rdg + 5 digits) 10M Ω range : \pm (0.3% rdg + 5 digits); 100M Ω range : \pm (3% rdg + 8 digits) 100 Ω range : \pm (0.05% rdg + 8digits) (*); 1k Ω ~ 1M Ω 4 ranges : \pm (0.05% rdg + 5 digits) 10M Ω range : \pm (0.3% rdg + 5 digits); 100M Ω range : \pm (3% rdg + 8 digits)	
DIODE TEST	Open Circuit Voltage Approx.2.0V, Test Current 0.5mA		
FREQUENCY	10Hz~800kHz		
CONTINUITY BEEPER	1 ~ 1000 Ω Define by user		
TEMPERATURE	0 $^{\circ}$ C ~ 300 $^{\circ}$ C : J , K , T Type		
OTHER FUNCTIONS	Auto range / Manual, Math : MX + B/ % / 1/X Max, Min, dBm, dB, REL, Hold, Compare, Store, Recall		
DISPLAY	VFD, Two Colors Display		
INTERFACE	Digital I/O, USB Device, RS-232C		
DIMENSIONS & WEIGHT	265(W) x 107(H) x 350(D) mm, Approx. 2.6 kg		

Note : (*)USE "REL" Mode

Specifications subject to change without notice. DM-8255AGD1DH

ORDERING INFORMATION

GDM-8255A 199999 Counts Dual Display Digital Multimeter

GDM-8251A 120000 Counts Dual Display Digital Multimeter

ACCESSORIES :

Quick start user manual x 1, Power cord x 1, Test lead GTL-117 x 1, CD x 1 (including complete user manual and PC software DMMViewer)
Calibration key GDM-01 x 1 (Compatible with Fluke 5720A/5725A calibrators only)

OPTIONAL ACCESSORIES

GTL-108A 4W Type test lead

GTL-232 RS232C Cable, 9-pin Female to 9-pin, null Modem for Computer

GDM-01 Calibration key

GTL-245 USB Cable

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