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GDM-8255A/8251A

199999/120000 Counts Dual Display Digital Multimeter

FEATURES

- VFD Two Colors Display
- 0.012% DCV Accuracy
- True RMS (AC, AC+DC)
- 9 Major Measuring Functions and 10 Advanced
- Measurement Functions
- 2W/4W Resistance Measurement
- High Voltage 1000V and 10A Current Range
- Standard Interface : RS-232C, USB Device, Digital I/O
- Free PC Software (DMM-VIEWER), LabVIEW Driver
- Optional 18 Channels Scanner Card (GDM-SC1 for GDM-8255A only)





199999/120000 COUNTS DUAL DISPLAY DIGITAL MULTIMETER

Is the resolution of your current mulitmeter inadequate to read the smallest signal? Need an easy to use multimeter with data-logging? Take a look at the GoodWill GDM-825xA series 5 1/2 digit dual-display digital multimeter. It features a DC voltage accuracy of 0.012% with an industry-leading response time. With robust hardware and software the GDM-825xA series will save time on debugging and analysis whilst saving you money.

The GDM-825xA series can measure up to 10A of current, 2/4 wire resistances, and features other advanced functions such as a simultaneous dual display measurements and a convenient remote control function for easy of use compared to other instruments in its market.

FEATURES

- GDM-8255A : 199,999 Counts Display
 GDM-8251A : 120,000 Counts Display
- VFD Two Colors Display
- 0.012% DCV Accuracy
- True RMS (AC, AC+DC)
- 9 Major Measuring Functions and 10 Advanced Measurement Functions
- 2W/4W Resistance Measurement
- High Voltage 1000V and 10A Current Range
- Standard Interface : RS-232C, USB Device, Digital I/O
- Free PC Software (DMM-VIEWER), LabVIEW Driver
- Optional 18 Channels Scanner Card (GDM-SC1 for GDM-8255A only)

199999 Counts Dual Display Digital Multimeter



GDM-8255A 120000 Counts Dual Display Digital Multimeter



GDM-8251A

A. RICH MEASURING FUNCTIONS WITH ENHANCED FEATURES

Advanced	Basic Measurement					
Measurement	AC/DCV	AC/DCI	2/4W	Hz/P	°C/ °F	→ [/•1)
dB	\checkmark	-	-	-	-	-
dBm	\checkmark	-	-	-	-	-
Max/Min	\checkmark	~	\checkmark	1	1	-
Relative	~	~	\checkmark	1	~	-
Hold	~	~	~	1	~	-
Compare	\checkmark	~	\checkmark	1	~	-
Math	\checkmark	~	~	1	~	-
Dual Measurement	~	~	~	1	-	-

Nine major measuring functions such as DCV/ACV, DCI/ACI, 2w/4w Resistance, Diode, Frequency, Continuity test and Temperature are provided on the GDM-8255A / 8251A. The 0.012% DC voltage accuracy provides great precision for the DC voltage applications. In addition to the major measuring functions there are several advanced measuring functions such as Max, Min, dB, dBm, REL/REL#, Hold, Compare and Math functions (MX+B, %, 1/X) to enhance the effectiveness of measuring results.

DIVERSE MEASURING COMBINATIONS WITH VFD DUAL COLOR DISPLAY



Offering a variety of dual display combinations, the GDM-8255A/8251A allows a main measurement function and an auxiliary measurement function to be displayed at the same time. The dual measuring function will save measurement time when dealing with applications requiring multiple simultaneous parameters. The high quality dual color VFD (Vacuum Fluorescent Display) is strongly illuminated with a clear contrast for both red and green.

E. CONVENIENT PC SOFTWARE



For convenient remote control and long data captures, the GDM-8255A/ 8251A is accompanied with free software, DMM-Viewer. This software allows users to remotely control the GDM-8255A/8251A without the need to issue commands or develop new program interfaces. DMM-Viewer's software interface resembles the GDM-8255A/8251A front panel, shortening training. For data capturing through a PC, the software allows you to observe measurement results before saving to a file for further study. Additionally saved files can be loaded and viewed as a graph. With DMM-Viewer, operating the GDM-8255A / 8251A multimeter can be much more effective.

B. FAST MEASUREMENT SPEED & TRANSFER RATE

Mode	Resolution	Measurement Speed	Transfer Speed
Fast	3½digits	60 readings/second	Typical 17mS
Medium	4½ digits	30 readings/second	Typical 34mS
Slow	5½ digits	10 readings/second	Typical 100mS



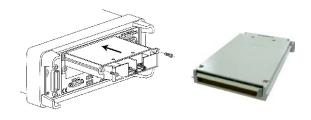
The GDM-8255A / 8251A offer selectable measurement speed rates under different modes. The speed rates allow you to maximize measurement efficiency while maintaining sufficient accuracy. In fast mode, the instrument delivers 60 readings/sec (see table below), adequately meeting today's speed demands. The display can be turned off by pressing the OUTPUT ON/OFF button at anytime. When using remote control, the display can be turned off to increase the measurement speed by reducing the operating load.

D. MULTIPLE STANDARD INTERFACES



The GDM-8255A/8251A provide multiple interfaces for PC connection as standard: RS232C and USB. With RS232 and USB as standard, remote control and data transfer is faster and smoother. Without the need for expensive propriety communication interfaces, costs are significantly reduced for PC control and monitoring. In addition, the digital I/O terminal outputs comparison measurement results to control external devices for ATE applications and the VCC output can be used as a power source for TTL or CMOS circuits.

F. EFFECTIVE MULTIPLE MEASUREMENT SCANNER CARD



The optional scanner card (GDM-SC1), creates a self-contained multipoint measurement solution with plug-in design. This approach eliminates the complexities of multipoint measurements and data processing. The scanner lets users effectively measure multiple channels connected to a single GDM-8255A. Each scanner card has 16 general purpose channels and 2 extra channels for current (ACI, DCI) measurements. All channels are fully isolated (Hi and Lo). Up to two scanner cards can be inserted into each multimeter for a maximum of 36 channels. These optional modules not only provide customers with a complete hands-free multiple measurement solution, but also provide a cost effect upgrade path compared to purchasing dedicated instruments. (OPTIONAL FOR GDM-8255A ONLY)

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 ± (0.012% rdg + 5 digits) 10M Ω			
AC VOLTAGE True RMS	Range Accuracy Input Impedance	$\begin{array}{l} 100 \text{mV}, 1\text{V}, 10\text{V}, 100\text{V}, 750\text{V} \ 5 \ \text{ranges} \\ 20 \text{Hz}\text{-}45 \text{Hz}: \pm (1\% \ \text{rdg} + 100 \ \text{digits}) \\ 45 \text{Hz} \ \sim 10 \text{kHz}: \pm (0.2\% \ \text{rdg} + 100 \ \text{digits}) \\ 10 \text{kHz} \ \sim 30 \text{kHz}: \pm (1\% \ \text{rdg} + 100 \ \text{digits}) \\ 30 \text{kHz}\text{-}100 \text{kHz}: \pm (3\% \ \text{rdg} + 200 \ \text{digits}) \\ 1.1 \text{M} \ \Omega \ \text{in parallel with approx. 100 pF} \end{array}$			
DC CURRENT	Range Accuracy	10mA, 100mA, 1A, 10A 4 ranges 10mA , 100mA : ±(0.05% rdg + 15 digits) 1A, 10A range : ±(0.2% rdg + 5 digits)			
AC CURRENT TRUE RMS	Range Accuracy	10mA, 100mA, 1A, 10A 4 ranges 10mA, 100mA range : 20Hz ~ 50Hz : ±(1.5% rdg + 100 digits) 50Hz ~ 10kHz : ±(0.5% rdg + 100 digits) 10kHz~20kHz : ±(2% rdg + 200 digits) 1A , 10A range : 50Hz ~ 10kHz : ±(1% rdg + 100 digits)			
RESISTANCE	Range 2W Accuracy 4W Accuracy	$\begin{array}{l} 100\Omega,1k\Omega,10k\Omega,100k\Omega,1M\Omega,10M\Omega,10M\Omega7ranges\\ 100\Omegarange:\pm(0.1\%rdg+8digits)(*)\\ 1k\Omegarange:\pm(0.08\%rdg+5digits)(*)\\ 10k\Omega\sim1M\Omega3ranges:\pm(0.06\%rdg+5digits)\\ 10M\Omegarange:\pm(0.3\%rdg+5digits)\\ 100M\Omegarange:\pm(3\%rdg+8digits)\\ 100M\Omegarange:\pm(0.5\%rdg+8digits)(*)\\ 10k\Omega\sim1M\Omega4ranges:\pm(0.05\%rdg+5digits)\\ 10M\Omegarange:\pm(0.3\%rdg+5digits)\\ 10M\Omegarange:\pm(0.3\%rdg+5digits)\\ 10M\Omegarange:\pm(0.3\%rdg+5digits) \\ 10M\Omegarange:\pm(0.3\%rdg+5digits) \\ 10M\Omegarange:\pm(0.3\%rdg+5digits) \\ 10M\Omegarange:\pm(0.3\%rdg+5digits)\\ 10M\Omegarange:\pm(0.3\%rdg+5digits) \\ 10M$			
		100M Ω range : \pm (0.5% rdg + 5 digits)			
FREQUENCY		10Hz ~ 800kHz : 0.1V; Accuracy : ±(0.05% rdg + 15 digits) 100kHz ~ 600kHz : 1V; Accuracy : ±(0.05% rdg + 3 digits) 600kHz ~ 800kHz : 2.5V; Accuracy : ±(0.05% rdg + 3 digits)			
DIODE TEST	Open Circuit Voltage	Open Circuit Voltage 2.0V, Test Current 0.5mA; Accuracy : ±(0.025% rdg + 5 digits)			
CONTINUITY BEEPER	1 ~ 1000 Ω Define b	$1 \sim 1000 \Omega$ Define by user; Accuracy : ±(0.08% rdg + 5 digits)			
TEMPERATURE	0°C~300°C:J,K,	0°C ~ 300°C : J , K , T Type			
OTHER FUNCTIONS	Auto range / Manua	Auto range / Manual, Math : MX + B/ % / 1/X Max, Min, dBm, dB, REL, Hold, Compare, Store, Recall			
DISPLAY	VFD, Two colors dis	VFD, Two colors display			
INTERFACE	Digital I/O, USB, RS	Digital I/O, USB, RS-232C			
POWER SOURCE	AC 100V~240V ± 10%, 50/60Hz				

NOTE : (*)USE "REL" Mode

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ORDERING	INFORMATION	GDM-SC1 SCAN	INER CARD	
GDM-8255A	199999 Counts Dual Display Digital Multimeter	Specifications		
GDM-8251A	120000 Counts Dual Display Digital Multimeter	Maximum Voltage	250V	
ACCESSORIES		Maximum Current 2A		
Quick start user manual x 1, Power cord x 1, Test lead GTL-117 x 1, USB Cable GTL-247 x 1		Connection		
CD x 1 (including complete user manual, upgrade program and PC software DMM Viewer),		ltem	No. of Wire	
Calibration key	GDM-01 x 1 (Compatible with Fluke 5720A/5725A calibrators only)	DCV, ACV	2 wires (H, L)	
Optional Acc	essories	DCI, ACI	2 wires (H, L)	
CTI 1004	4W Type test lead	2W Resistance	2 wires (H, L)	
GTL-108A GTL-232	71	4W Resistance	4 wires(Input H,L+Sens	
	RS232C Cable, 9-pin female to 9-pin, null modem for computer	Diode/Continuity	2 wires (H, L)	
Option		Period/Frequency	2 wires (H, L)	
Opt.01	Scanner Card GDM-SC1 (GDM-8255A only)	Temperature	2 wires (H, L)	

China Subsidiary

GDM-SCT SCANNER CARD				
Specifications				
Maximum Voltage				
Maximum Current	2A			
Connection				
ltem	No. of Wire	No. of Channels		
DCV, ACV	2 wires (H, L)	16 (CH 1 ~ 16)		
DCI, ACI	2 wires (H, L)	2 (CH 17, 18)		
2W Resistance	2 wires (H, L)	16 (CH 1 ~ 16)		
4W Resistance	4 wires(Input H,L+Sense H,L)	8 pairs(CH1input & 9sense,2&10,8&16)		
Diode/Continuity	2 wires (H, L)	16 (CH 1 ~ 16)		
Period/Frequency	2 wires (H, L)	16 (CH 1 ~ 16)		
Temperature	2 wires (H, L)	16 (CH 1 ~ 16)		

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