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

CE RS-232 USB Digital I/O PC Software LabVIEW Driver

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 16+2 Channels Scanner Card (GDM-SC1 for GDM-8255A only)**

GTL-117 Test Lead

For: GDM-8255A/8251A, GDM-8245/8246

GTL-247 USB Cable

A-A type cable, Approx. 1.8m
For: GDM-8255A/8251A

GDM-01 Calibration key

For: GDM-8255A/8251A

The GDM-8255A/8251A portable precision multimeters feature 199,999/120,000 counts, a dual display, a 0.012% DCV accuracy and 2w/4w measurement. The VFD display technology provides the excellent observation of contrast and brightness.

The GDM-8255A/8251A carries an extensive list of standard measurement items with a dual-display allowing two measurement items to be displayed simultaneously. Advanced measurement functions, such as Max/Min, Hold, Relative value and Compare, are suitable for a multiplicity of applications such as production testing, research and field verification. The USB, RS-232C and 9-pin digital I/O interface are included as standard features for remote control and data capturing for ATE applications.

For convenient PC-based remote control and extensive data capture, the GDM-8255A/8251A includes DMM-Viewer software at no additional cost. DMM-Viewer mimics the operation of the multimeters on the PC, allowing you to quickly use the software with little effort.

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		
	199,999 Counts	120,000 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) 10MΩ	
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) 1.1MΩ 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	100Ω , 1kΩ , 10kΩ , 100kΩ , 1MΩ , 10MΩ , 100MΩ 7 ranges 100Ω range :$\pm$ (0.1% rdg + 8digits) (*) 1kΩ range :$\pm$ (0.08% rdg + 5 digits) (*) 10kΩ ~ 1MΩ 3 ranges : $\pm$ (0.06% rdg + 5digits) 10MΩ range :$\pm$ (0.3% rdg + 5 digits) 100MΩ range :$\pm$ (3% rdg + 8 digits)	
4W Accuracy	100Ω range :$\pm$ (0.05% rdg + 8 digits) (*) 1kΩ ~ 1MΩ 4 ranges : $\pm$(0.05% rdg + 5 digits) 10MΩ range :$\pm$ (0.3% rdg + 5 digits) 100MΩ range :$\pm$ (3% rdg + 8 digits)	
DIODE TEST		
Open Circuit Voltage 2.0V, Test Current 0.5mA		
FREQUENCY		
10Hz~800kHz		

GW INSTEK

GDM-8255A

SPECIFICATIONS

CONTINUITY BEEPER

1 ~ 1000Ω   Define by user

TEMPERATURE

0 ℃ ~ 300 ℃ : 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, RS-232C

POWER SOURCE

AC 100V~240V± 10%, 50/60Hz

DIMENSIONS & WEIGHT

265(W) x 107(H) x 350(D) mm, Approx. 2.6 kg

NOTE : (*)USE "REL" Mode

ORDERING INFORMATION

GDM-8255A   199,999 Counts Dual Display Digital Multimeter
GDM-8251A   120,000 Counts Dual Display Digital Multimeter

ACCESSORIES :
Quick start user manual x 1, Power cord x 1, Test lead GTL-117 x 1, USB Cable GTL-247
CD x 1 (including complete user manual, upgrade program and PC software DMM Viewer),
Calibration key GDM-01 x 1 (Compatible with Fluke 5720A/5725A calibrators only)

OPTION

Opt.01   Scanner Card (GDM-SC1 for GDM-8255A only)

OPTIONAL ACCESSORIES

GTL-108A   4W Type test lead
GTL-232   RS232C Cable, 9-pin female to 9-pin, null modem for computer

FREE DOWNLOAD

PC Software   DMM-VIEWER
Driver   USB Driver
                LabVIEW Driver

GDM-8251A Rear Panel

GDM-8255A Rear Panel

GDM-SC1 Scanner card

Multipoint Testing
can be facilitated
by simple insertion
of scanner card.
For: GDM-8255A

GTL-108A 4W Type Test Lead

For: GOM-801H/802 , GDM-8255A/8251A
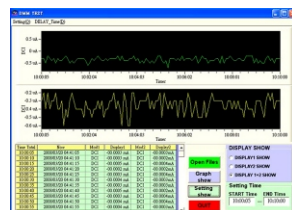

GTL-232 RS-232C Cable
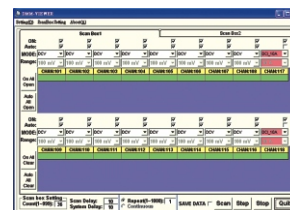
For: GDM-8255A/8251A

DMM-Viewer PC Software

General Control Mode

Reload-Data Graphic

Scanner Control Mode