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## 199999/120000 Counts Dual Display Digital Multimeter



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

# 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

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.

### APPLICATIONS

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



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## SPECIFICATIONS

| | | GDM-8255A | GDM-8251A |
|---|---|---|---|
| **FULL SCALE** | | 199999 Counts | 120000 Counts |
| **SAMPLE RATE** | | Slow : 5 1/2 digits, 10 readings/second<br>Medium : 4 1/2 digits, 30 readings/second<br>Fast : 3 1/2 digits, 60 readings/second | |
| **DC VOLTAGE** | **Range**<br>**Accuracy**<br>**Input Impedance** | 100mV, 1V, 10V, 100V, 1000V 5 ranges<br>± (0.012% rdg + 5 digits)<br>10MΩ | |
| **AC VOLTAGE True RMS** | **Range**<br>**Accuracy**<br><br><br>**Input Impedance** | 100mV, 1V, 10V, 100V, 750V 5 ranges<br>20Hz~45Hz :± (1% rdg + 100 digits)<br>45Hz ~ 10kHz :± (0.2% rdg + 100 digits)<br>10kHz ~ 30kHz :± (1% rdg + 100 digits)<br>30kHz~100kHz :± (3% rdg + 200 digits)<br>1.1MΩ in parallel with approx. 100pF | |
| **DC CURRENT** | **Range**<br>**Accuracy** | 10mA, 100mA, 1A, 10A 4 ranges<br>10mA , 100mA :± (0.05% rdg + 15 digits)<br>1A, 10A range :± (0.2% rdg + 5 digits) | |
| **AC CURRENT True RMS** | **Range**<br>**Accuracy** | 10mA, 100mA, 1A, 10A 4 ranges<br>10mA , 100mA range :<br>20Hz ~ 50Hz :± (1.5% rdg + 100 digits)<br>50Hz ~ 10kHz :± (0.5% rdg + 100 digits)<br>10kHz~20kHz :± (2% rdg + 200 digits)<br>1A , 10A range :<br>50Hz ~ 10kHz :± (1% rdg + 100 digits) | |
| **RESISTANCE** | **Range**<br>**2W Accuracy**<br><br><br>**4W Accuracy** | 100Ω , 1kΩ , 10kΩ , 100kΩ , 1MΩ , 10MΩ , 100MΩ 7 ranges<br>100Ω range :± (0.1% rdg + 8digits) (*);1kΩ range : ±(0.08% rdg + 5 digits) (*);<br>10kΩ ~ 1MΩ 3 ranges : ±(0.06% rdg + 5 digits)<br>10MΩ range :± (0.3% rdg + 5 digits); 100MΩ range :± (3% rdg + 8 digits)<br>100Ω range :± (0.05% rdg + 8digits) (*);1kΩ ~ 1MΩ 4 ranges : ±(0.05% rdg + 5 digits)<br>10MΩ range :± (0.3% rdg + 5 digits); 100MΩ range :± (3% rdg + 8 digits) | |
| **DIODE TEST** | Open Circuit Voltage Approx.2.0V, Test Current 0.5mA | | |
| **FREQUENCY** | 10Hz~800kHz | | |
| **CONTINUITY BEEPER** | 1 ~ 1000Ω Define by user | | |
| **TEMPERATURE** | 0° C ~ 300° C : J , K , T Type | | |
| **OTHER FUNCTIONS** | Auto range / Manual, Math : MX + B/ % / 1/X<br>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-8255AGD2DH

## 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
**GTL-245** USB Cable


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