

Features

- 5 1/2 Digit Display: 239,999 Counts max.
- 4.3 TFT Graphic LCD
- DCV Basic Accuracy: 0.012 %
- A. I. Measurement offers automatic identification and measurement for Voltage, Resistance, Diode and Continuity tests
- 12 measurement Functions: AC/DC voltage/ current, 2-wire/4-wire Resistance, Frequency, Period, Diode, Continuity, Capacitance and Temperature
- True RMS (AC, AC+DC)
- Dual Measurement Function to Providing Two Selected Measurement Simultaneously
- Many Math functions: Max./Min., REL/REL#, Compare, Hold, dB, dBm, MX+B, %, 1/X
- Digital I/O provides dual mode (standard Compare and User definition modes)
- Standard interfaces : RS-232C and USB device (support USB CDC and USB TMC modes)

RS PRO Dual Measurement Multimeter

RS Stock No.: 0737660,0737661,0737662,0737663,
0737664,0737665,0737666,0737668

MPN: RSDM-9052



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

The GDM-9052 is a portable, dual-measurement digital multimeter suitable for a wide range of applications, such as production testing, research, and field verification.

This new Dual Measurement Multimeter -- GDM-9052; Its exceptional features include 5 1/2 digit (239,999 counts), LCD display, 0.012% basic DC voltage accuracy, Automatic Identification (A.I.) measurement and a RS-232C/USB protocol connector to provide users with measurement precision, lucid data observation, smooth measurement experience and the convenience to connect with the personal computer. Furthermore, the GDM-9052 also provides many math functions to meet the measurement requirements for manufacturing process tests, educational experiments and testing facilities.

General Specifications

Display	4.3" TFT Graphic LCD
Interface	RS-232C, USB device (USBCDC & USBTMC), Digital I/O
Power Source	AC 100 V / 120 V / 220 V / 240 V $\pm$ 10 %
Power Line Frequency	50 Hz to 60 Hz
Power Consumption	Max. 30VA
Dimensions	268 (W) mm x 107 (H) mm x 302 (D) mm ~ with bumper
Weight	Approx. 3.2 kg

Electrical Specifications

Function	Range (*2)	Resolution	Input Resistance etc.	Accuracy(*1*3) 1 Year 23 °C $\pm$ 5 °C
DC Voltage	200.000 mV	1 μ V	10 M Ω or > 10 G Ω	0.012 + 8
	2.00000 V	10 μ V	10 M Ω or > 10 G Ω	0.012 + 5
	20.0000 V	100 μ V	11.1 M Ω	0.012 + 5
	200.000 V	1 mV	10.1 M Ω	0.012 + 5
	1000.00 V	10 mV	10 M Ω	0.012 + 5
Resistance	200.000 Ω	1 m Ω	1 mA	0.05 + 8
	2.00000 k Ω	10 m Ω	1 mA	0.05 + 5
	20.0000 k Ω	100 m Ω	100 μ A	0.05 + 5
	200.000 k Ω	1 Ω	10 μ A	0.05 + 5
	2.00000 M Ω	10 Ω	1 μ A	0.05 + 5

	10.0000 MΩ	100 Ω	0.5 μA	0.30 + 5
	100.000 MΩ	1 kΩ	0.5 μA // 10 MΩ	3.00 + 8
Function	Range (*2)	Resolution	Input Resistance etc.	Accuracy(*1*3) 1 Year 23 °C ± 5 °C
DC Current	20.0000 mA	100 nA	1 Ω	0.05 + 15
	200.000 mA	1 μA	1 Ω	0.05 + 5
	2.00000 A	10 μA	0.1 Ω	0.20 + 5
	10.0000 A	100 μA	0.01 Ω	0.20 + 5
Continuity	2000.00 Ω	10 mΩ	1 mA	0.05 + 5
Diode Test	6.0000 V	100 μV	1 mA@ 6 V	0.05 + 15
Capacitance	10.00 nF	0.01 nF	10 μA	2.0 + 10
	100.0 nF	0.1 nF	10 μA	2.0 + 4
	1.000 μF	0.001 μF	100 μA	2.0 + 4
	10.00 μF	0.01 μF	1 mA	2.0 + 4
	100.0 μF	0.1 μF	1 mA	2.0 + 4
True RMS AC (or AC+DC – AC coupled) Voltage	200.000 mV	1 μV	20 Hz to 45 Hz	1.0 + 100
			45 Hz to 10 kHz	0.3 + 100
			10 kHz to 30 kHz	1.5 + 300
			30 kHz to 100 kHz	5.0 + 300
	2.00000 V	10 μV	20 Hz to 45 Hz	1.0 + 100
			45 Hz to 10 kHz	0.2 + 100
			10 kHz to 30 kHz	1.0 + 100
			30 kHz to 100 kHz	3.0 + 200
	20.0000 V	100 μV	20 Hz to 45 Hz	1.0 + 100
			45 Hz to 10 kHz	0.2 + 100
			10 kHz to 30 kHz	1.0 + 100
			30 kHz to 100 kHz	3.0 + 200
	200.000 V	1 mV	20 Hz to 45 Hz	1.0 + 100
			45 Hz to 10 kHz	0.2 + 100
			10 kHz to 30 kHz	1.0 + 100
			30 kHz to 100 kHz	3.0 + 200
	750.00 V	10 mV	20 Hz to 45 Hz	1.0 + 100
			45 Hz to 10 kHz	0.2 + 100
			10 kHz to 30 kHz	1.0 + 100
			30 kHz to 100 kHz	3.0 + 200
Function	Range (*2)	Resolution	Input Resistance etc.	Accuracy(*1*3) 1 Year 23 °C ± 5 °C

True RMS AC (or AC+DC – AC coupled) Current	20.0000 mA	100 nA	20 Hz to 45 Hz	1.5 + 100
			45 Hz to 2 kHz	0.5 + 100
			2 kHz to 10 kHz	2.0 + 200
	200.000 mA	1 µA	20 Hz to 45 Hz	1.5 + 100
			45 Hz to 2 kHz	0.5 + 100
			2 kHz to 10 kHz	2.0 + 200
	2.00000 A	10 µA	20 Hz to 45 Hz	1.5 + 100
			45 Hz to 2 kHz	0.5 + 100
			2 kHz to 10 kHz	2.0 + 200
	10.0000 A	100 µA	20 Hz to 45 Hz	1.5 + 100
			45 Hz to 2 kHz	1.0 + 100
			2 kHz to 10 kHz	-----
Frequency	(Voltage) 10 Hz to 1 MHz	-----	-----	0.01 + 3
	(Current) 20 Hz to 10 kHz	-----	-----	0.01 + 3
Temperature (Thermocouple)	-200 °C to 0 °C	0.01 °C	J / T / K	0.6 °C (typical)
	0 °C to +300 °C	0.01 °C	J / T / K	0.3 °C (typical)

1. All specifications are applicable to the single (1st) display only and warmed up for at least 30 minutes and operated in the slow rate.
2. 20 % overrange on all ranges, except 750 V / 10 A range
3. Accuracy: ± (% of Reading + Digits)

Approvals

Directive: EMC; LVD; WEEE; RoHS

The product is in conformity with the following standards or other normative documents:

© EMC	
EN 61326-1 :	Electrical equipment for measurement, control and laboratory use -- EMC requirements
Conducted & Radiated Emission EN 55011 / EN 55032	Electrical Fast Transients EN 61000-4-4
Current Harmonics EN 61000-3-2 / EN 61000-3-12	Surge Immunity EN 61000-4-5
Voltage Fluctuations EN 61000-3-3 / EN 61000-3-11	Conducted Susceptibility EN 61000-4-6
Electrostatic Discharge EN 61000-4-2	Power Frequency Magnetic Field EN 61000-4-8
Radiated Immunity EN 61000-4-3	Voltage Dip/ Interruption EN 61000-4-11 / EN 61000-4-34
© Safety	
EN 61010-1 :	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements

Similar Products

Stock No.	Brand	Product Name	Attribute 1	Attribute 2	Attribute 3
1233537	RS PRO	IDM-8351	EOL		

Order Information

RSDM-9052

5 1/2 Digit Dual Measurement Multimeter

ACCESSORIES :

Power Cords*2 (UK/VDE), Test lead GTL-207A x 1

Dimension

