

CM5091

3 1/2 Digits Multi Function Multimeter

Features:

- 3 1/2 Digits LCD display
- Max. reading 1999
- Auto power off
- DC voltage 200mV up to 600V
- AC voltage 200mV up to 600V
- DC current 200 μ A up to 10A (fused)
- Resistance 200 Ω up to 20M Ω
- Diode test
- Continuity test
- Data hold
- Low battery warning display
- All ranges 600volt overload protection
- Wrong terminal inserting warning beeper
- German technology double moulded casing
- Power single 9V NEDA 1604
- Conform to IEC1010/EN61010
CAT III 600V, CE-EMC & LVD



General Specifications

Display	: 3 1/2 digits LCD with max. reading of 1999.
Polarity	: Automatic, (-) negative polarity indication.
Zero adjustment	: Automatic.
Over range indication	: Only the MSD "1" is displayed.
Power	: Single, standard 9 volt battery NEDA 1604, JIS 006P, IEC6F22.
Dimension	: 93 (W) x 194 (H) x 39.4 (D) mm.
Weight	: Approx. 400 g (including battery).

Due to our policy of continual product development we reserve the right to amend the specifications of all mentioned products without notice.



Electrical Specification

Accuracies are \pm (% of reading + number of least significant digits) at 23°C \pm 5°C, less than 75%RH

DC voltage measurement

Range	Resolution	Accuracy	Input impedance	Overload Protection
200mV	0.1mV	$\pm(0.8\% \text{Read.} + 1 \text{dgt})$	10M Ω	600Vrms
2V	0.001V			
20V	0.01V			
200V	0.1V			
600V	1V			

AC voltage measurement

Range	Resolution	Accuracy	Input impedance	Overload Protection
200mV	0.1mV	$\pm(1.5\% \text{Read.} + 10 \text{dgt})$	10M Ω	600Vrms
2V	0.001V			
20V	0.01V			
200V	0.1V			
600V	1V			

Frequency Range: 40 – 400Hz

DC current measurement

Range	Resolution	Accuracy	Voltage drop	Overload Protection
200 μ A	0.1 μ A	$\pm(1.0\% \text{Read.} + 2 \text{dgt})$	200mV	Fuse 2A/600V Rapid
2mA	0.001mA			
20mA	0.01mA			
200mA	0.1mA	$\pm(1.2\% \text{Read.} + 2 \text{dgt})$		
2A	1mA	$\pm(2.0\% \text{Read.} + 5 \text{dgt})$		Fuse 10A/600V
10A	0.01A			Rapid

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Resistance measurement

Range	Resolution	Accuracy	Max open circuit voltage	Overload Protection
200Ω	0.1Ω	±(1.0%Read. + 3dgt)	≤ 700mV	600Vrms
2kΩ	0.001kΩ			
20kΩ	0.01kΩ			
200kΩ	0.1kΩ			
2MΩ	0.001MΩ	±(1.2%Read. + 5dgt)		
20MΩ	0.01MΩ	±(1.5%Read. + 3dgt)		

Diode Test

Range	Accuracy	Test current	Max open circuit voltage	Overload Protection
2000mV	±(2%Read. + 2dgt)	Approx. 1mA	3.0V	600Vrms

Continuity Test

Range	Accuracy	Test current	Max open circuit voltage	Overload Protection
2000Ω(*)	±(2%Read. + 2dgt)	Approx. 1mA	3.0V	600Vrms

(*) The instrument emits a sound signal when the resistance value is lower than 100Ω.

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