



## Digital Clamp Meter **DCM 49 A**

### FEATURES

- 3 $\frac{3}{4}$  digit LCD, 4000 counts, Multi function 1000A AC/DC.
- Large Jaw Size : 60mm.
- Function Rich, AC/DC Current, AC/DC Voltage, Resistance, Diode, Continuity, Capacitance, Frequency and Duty Cycle.
- Large Backlit display with rich annunciations.
- Auto Power Off for battery life saving.
- Relative Reading and Data Hold Functions.
- Ergonomic Design for holding.
- Suitable for use in Appliance Testing, Portable Tools, Building Wiring,
- Testing of Electronic / Electrical Products.

## GENERAL SPECIFICATION :

- ⊙ **Dimensions** : 260mm x 91mm X 44.5mm (approx).
- ⊙ **Weight** : Approx 500gms.
- ⊙ **Supplied Accessories** : Pair of Leads, Instruction Manual, Battery Installed.
- ⊙ **Safety** : In accordance with IEC61010-1 and IEC61010-2- 32, double insulation DC 1000V and AC 700V, CAT-II and pollution degree II.

## TECHNICAL SPECIFICATIONS

### AC/DC CURRENT : (MANUAL RANGING) (50-60Hz)

Range	Resolution	Accuracy	Overload Protection
400A	0.1A	±(2.5% +10d)	120% of Full Scale for <60 sec.
1000A	1A		

### DC VOLTS : (AUTO / MANUAL RANGING)

Range	Accuracy	Overload Protection	Input Impedance
4V	± (1.5% +10d)	DC 1000V or AC 750V rms.	10MΩ(Approx)
40V			
400V			
1000V			

### RESISTANCE : ( AUTO / MANUAL RANGING )

Range	Accuracy	Overload Protection
400Ω	±(1% +5d)	250V DC or AC rms
4KΩ		
40KΩ		
400KΩ		
4MΩ		
40MΩ		

**Diode** : Measure forward voltage drop. Reverse Circuit. Voltage approx 1.5V. Input protected up to 250V DC or AC rms.

**Continuity** : Buzzer sound if resistance <50Ω. Input protected up to 250V DC or AC rms.

### ACCURACY :

- ⊙ All accuracies are claimed from 10% of the range to 95% of range.
- ⊙ All claims of accuracy are at decade values i.e. 10, 100 etc.
- ⊙ Accuracy is specified as ± (% of reading + offset in least count digits).
- ⊙ Accuracy claim is at 23°C ± 3°C , 55% ±10% RH.

**Note** : Its use is not advised on Multi phase High Energy Circuits where heavy transients are likely to occur.

### AC VOLTS : (AUTO / MANUAL RANGING)

Range	Frequency Response	Accuracy	Overload Protection	Input Impedance
4V	40Hz -400Hz	±(1.5% +10d)	DC1000V or AC 750V rms.	10MΩ    30pF (Approx)
40V				
400V				
700V				

### CAPACITANCE : (AUTO RANGING)

Range	Accuracy	Overload Protection	Open Circuit Voltage
100μF	±(3% + 10d)	250V rms AC or DC	<0.8V

### FREQUENCY :

Range	Accuracy	Sensitivity	Overload Protection
10MHz	±(0.5% + 10d)	4V	250V rms AC or DC

### DUTY CYCLE :

Range	Resolution	Sensitivity	Overload Protection
0.1% - 99.9%	0.1 %	4V	250V rms AC or DC

### ENVIRONMENTAL :

**Operating Temperature** : 0°C to 40°C, <80%RH (Non Condensing).

**Storage Temperature** : -10° to + 60° < 80%RH (Non Condensing), Battery Removed.

**Temperature Coefficient** : 0.1 X Accuracy / deg C.

### POWER :

Power Source is one 9V Battery NEDA 1604 / 6F22 / 006P  
Auto Power OFF : 30 mins. of idle condition.

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**NOTES** 1. The Instrument is accompanied with Test & calibration sheet. 2. Test Facilities can be provided at the factory with the available test set-ups only. 3. The Company's policy is continuous improvement of its products. we therefore reserve the Right of any deviation from illustration or specifications without notice. 4. Stated accuracies are valid from 1/10th of range to FS. 5. Accuracy Specified for temperature range of 25°C ± 5°C & 55%RH ± 10%.