

Features

- Auto ranging 3½ digits (3999) LCD-Display.
- True RMS reading for ACV & ACA
- 2 in 1 Clamp meter + Digital multimeter.
- Overload protection for all ranges.
- Data hold, Relative key facility.
- Water resistance front panel, fireproof heavy-duty ABS casing.
- Current sensor- Hall effect sensor
- Over range indication: 'OL' is displayed.
- Max Conductor size 60mm approx.
- Power – one 9V battery type (6F22)
- Size (H X W X L)-255 X 73 X 38 mm (approx)
- Net weight -515 gm with battery (approx)

DCM 39A/9930A

Digital Clamp Meter

MOTWANE's Digital Clamp Meter DCM 39A & DCM 9930A are highly precision, Industrial grade, Trms, auto ranging clamp meters with 3½ Digit display. Both the clamp meters can be used as Multimeter with test leads for AC/DC Current measurements upto 400 mA, AC/DC Voltage, resistance, Frequency, Capacitance, Duty Cycle and Diode, Continuity etc. These clamp meters are provided with safety features like Water resistance front panel, fireproof heavy-duty ABS casing. It uses a Hall Effect sensor for measuring the current.

The model DCM 39A measures AC/DC currents upto 1000A.

The model DCM 9930A measures AC/DC currents upto 2000A.

Applications

- Generation, transmission & Distribution Substation
- Process industries.
- OEM's
- Railway's
- Telecom Industries
- Service Industries



Technical Specifications

AC/DC CURRENT (TRUE RMS FOR AC) - DCM 39A

Range	Resolution	Input	Accuracy
400µA	0.1µA	Direct Input (by using leads)	± 1.2% ± 5dgt
4000µA	1µA		± 1.2% ± 5dgt
40mA	0.01mA		± 1.2% ± 5dgt
400mA	0.1mA		± 1.2% ± 5dgt
400A	0.1A	Indirect Input (by using clamp)	± 2% ± 8dgt
1000A	1A		± 2% ± 8dgt

Overload protection : AC/DC 500mA(Fuse)
AC/DC 1000A/1000V

Frequency Response : 45Hz - 1KHz

AC/DC CURRENT (TRUE RMS FOR AC) - DCM9930A

Range	Resolution	Input	Accuracy
400µA	0.1µA	Direct Input (by using leads)	± 1.2% ± 5dgt
4000µA	1µA		± 1.2% ± 5dgt
40mA	0.01mA		± 1.2% ± 5dgt
400mA	0.1mA		± 1.2% ± 5dgt
400A	0.1A	Indirect Input (by using clamp)	± 2% ± 8dgt
2000A	1A		± 2% ± 8dgt

Overload protection : AC/DC 500mA(Fuse)
AC/DC 2000A/1000V

Frequency Response : 45Hz - 1KHz

Common Technical Specifications for DCM39A & DCM9930A

DC VOLTAGE

Range	Resolution	Accuracy	Overload protection
400mV	0.1mV	± 0.5% ± 2dgt	1000V DC or 1000V AC rms (Sine wave)
4V	0.001V	± 1% ± 2dgt	
40V	0.01V	± 1% ± 2dgt	
400V	0.1V	± 1% ± 2dgt	
1000V	1V	± 1% ± 2dgt	

Input Impedance : ≥10MΩ (Approx)

FREQUENCY

Range	Resolution	Accuracy	Overload protection
50Hz	0.01Hz	± 1% ± 5dgt	1000V AC/DC
500Hz	0.1Hz	± 1% ± 5dgt	
5KHz	1Hz	± 1% ± 5dgt	
50KHz	0.01KHz	± 1% ± 5dgt	
100KHz	0.1KHz	± 1% ± 5dgt	

Amplitude : < 5V

DUTY CYCLE

Range	Resolution	Accuracy	Over voltage Protection
1% -99%	0.1%	± 1% ± 5dgt	1000 V AC/DC

DIODE : Measures forward voltage drop

CONTINUITY CHECK : Buzzer sound if Resistance < 10Ω

Accessories

- 1) one set of test leads.
- 2) Carrying Case.
- 3) Instruction Manual
- 4) one 9V Battery

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%.

AC VOLTAGE

Range	Resolution	Accuracy	Overload protection
4V	0.001V	± 1.2% ± 5dgt	1000V DC or 1000V AC rms (Sine wave)
40V	0.01V	± 1.2% ± 5dgt	
400V	0.1V	± 1.2% ± 5dgt	
1000V	1V	± 1.2% ± 5dgt	

Input Impedance : 10MΩ (Approx)

Frequency Response : 45Hz - 1KHz

RESISTANCE

Range	Resolution	Accuracy	Overload protection
400Ω	0.1Ω	± 1% ± 5dgt	400V DC/AC RMS (Sine wave)
4KΩ	1Ω	± 1% ± 5dgt	
40KΩ	10Ω	± 1% ± 5dgt	
400KΩ	100Ω	± 1% ± 5dgt	
4MΩ	1KΩ	± 2% ± 2dgt	
40MΩ	10KΩ	± 3.5% ± 5dgt	

CAPACITANCE

Range	Resolution	Accuracy	Overload protection
50nF	10pF	± 3% ± 5dgt	400V DC/AC RMS (Sine wave)
500nF	100pF	± 3% ± 5dgt	
5µF	0.001µF	± 3% ± 5dgt	
50µF	0.01µF	± 3% ± 5dgt	

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