

Megger[®]

DCM310 and DCM320

Digital clamp meter



- **Current only and multimeter models**
- **Measures up to 400 A a.c. with low current ranges for improved resolution**
- **600 V ac/dc (DCM320)**
- **Data Hold**
- **Max Hold (DCM310)**
- **20 M Ω Resistance (DCM320)**
- **Small pocket-size design**
- **Exceptional battery lifetime**
- **Supplied with carry case**
- **IEC61010 CAT III 600 V**

DESCRIPTION

The DCM310 and DCM320 are ideal clamp meters for use during the installation, maintenance and checking of electrical systems and equipment.

Both meters will measure AC current (50~60 Hz) up to 400 A, with a Data-hold feature to freeze the displayed value for use in confined situations where the display may be difficult to read. The DCM310 also has a max-hold feature to automatically store and display the maximum value measured over a period of time.

The DCM320 has the benefit of measurement ranges for a.c. and d.c. voltages up to 600 V, and resistance up to 20 M Ω , via the terminals and supplied test leads. It also has a continuity buzzer that operates up to 20 Ω .

Both meters are safety rated to IEC 61010 CAT III 600 V, so offering high levels of protection to the operator. Carrying cases are included, and even without the case, the instruments are rated to withstand a 1.2 m-drop onto a hard surface without damage.

The large clamp jaw enables cables to be measured up to 27 mm diameter, so covering the majority of applications within the electrical system installation industry.

Ideal for use by anyone working on basic electrical systems or equipment, these instruments are also suitable for the majority of applications encountered by the Electrical Contractor.

SPECIFICATION

All accuracies specified at 23°C ±5° 85% RH

DCM310		DCM320	
AC current (50 - 60 Hz)	Range	Accuracy	
	0-19.99 A	±3% ±0.05 A	0-40.00 A ±1.9% ±10 digits
	20.0-199.9 A	±2% ±0.5 A	40.00-200.0 A ±1.9% ±5 digits
	200-400 A	±2% ±0.5 A	201-400 A ±1.9% ±5 digits
Position error:	±1% of reading		
DC and AC volts	Ranges 0 - 200.0 V 200.0 - 600.0 V		
Accuracy	DC AC ±1.0% ±2 dpts ±1.5% ±5 dpts (50-500 Hz)		
Continuity	On: <20 Ω Off: >50 Ω Response time: <50 ms		
Resistance	Range Accuracy 200.0 Ω ±1% ±5% digits 2.000 KΩ ±0.7% ±2 digits 20.00 KΩ ±0.7% ±2 digits 200.0 KΩ ±0.7% ±2 digits 2.000 MΩ ±1.0% ±2 digits 20.00 MΩ ±1.9% ±5 digits		
Temperature coefficient	0.2 x (specified accuracy) / °C (<18°C >28°C)		
Maximum conductor size	27 mm diameter		
LCD	2000 digit large scale readout		
Sample rate:	2.5 times per second	1.5 times per second	
Overrange display	"OL"		
Power requirements	1 x PP3 9 V alkaline battery	2 x AAA 1.5 A alkaline battery	
Battery life: Auto off:	580 hours	200 hours 10 mins. after power off	
Operating temperature	0 - 30°C 30 - 40°C 40 - 50°C	80% RH 75% RH 45% RH	
Storage temperature	-20°C - +60°C (80% RH) (batteries removed)		
Operating altitude	2000 m		

Applies to both clampmeters

Safety rating

IEC/EN61010-1 CAT III 600 V

EMC

IEC/EN 61326-1

Warranty

1 year

ORDERING INFORMATION

Item (Qty)	Order Code
DCM310-EN Digital clamp meter, 400 A a.c.	1000-303
DCM320-EN Digital clamp meter, 600 V a.c. and d.c.; 20 MΩ	1000-304



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