

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	<table border="0"> <tr> <td>DC</td> <td>AC</td> </tr> <tr> <td>±1.0% ±2 dgts</td> <td>±1.5% ±5 dgts (50-500 Hz)</td> </tr> </table>			DC	AC	±1.0% ±2 dgts	±1.5% ±5 dgts (50-500 Hz)										
DC	AC																
±1.0% ±2 dgts	±1.5% ±5 dgts (50-500 Hz)																
Continuity	On: <20 Ω Off: >50 Ω Response time: <50 ms																
Resistance	<table border="0"> <tr> <td>Range</td> <td>Accuracy</td> </tr> <tr> <td>200.0 Ω</td> <td>±1% ±5% digits</td> </tr> <tr> <td>2.000 KΩ</td> <td>±0.7% ±2 digits</td> </tr> <tr> <td>20.00 KΩ</td> <td>±0.7% ±2 digits</td> </tr> <tr> <td>200.0 KΩ</td> <td>±0.7% ±2 digits</td> </tr> <tr> <td>2.000 MΩ</td> <td>±1.0% ±2 digits</td> </tr> <tr> <td>20.00 MΩ</td> <td>±1.9% ±5 digits</td> </tr> </table>			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
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:	580 hours	200 hours															
Auto off:		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

UK
 Archcliffe Road Dover
 CT17 9EN England
 T +44 (0) 1304 502101
 F +44 (0) 1304 207342
 E uksales@megger.com

UNITED STATES
 4271 Bronze Way
 Dallas TX 75237-1088 USA
 T 800 723 2861 (USA only)
 T +1 214 333 3201
 F +1 214 331 7399

OTHER TECHNICAL SALES OFFICES
 Norristown USA, Sydney AUSTRALIA,
 Toronto CANADA, Trappes FRANCE,
 Kingdom of SAUDI ARABIA, Mumbai
 INDIA, Johannesburg SOUTH AFRICA
 and Conjure THAILAND.

 Registered to ISO 9001:2000 Cert no. Q 09290
 Registered to ISO 14001-1996 Cert no. EMS 61597

DCM310_DCM320_DS_en_V01

 www.megger.com
 Megger is a registered trademark