

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)**
- **Max Hold (DCM310)**
- **20 M Ω Resistance (DCM320)**
- **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 compact clamp jaw enables cables to be measured as large as 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.

ADDITIONAL FEATURES

- **Data Hold**
- **Small pocket-size design**
- **Exceptional battery lifetime**
- **Supplied with carry case**

SPECIFICATION

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

DCM310			DCM320	
AC current (50 - 60 Hz)	Range	Accuracy	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 ±1.0% ±2 dgts	AC ±1.5% ±5 dgts (50-500 Hz)
Continuity buzzer			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
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 Auto off:			200 hours 10 mins. after power off	
Operating temperature 0 - 30°C 30 - 40°C 40 - 50°C			80% RH 75% RH 45% RH	

Applies to both clampmeters

Safety rating

IEC/EN61010-1 CAT III 600 V

Temperature coefficient

0.2 x (specified accuracy) / °C (<18°C >28°C)

Maximum conductor size

27 mm diameter

LCD

2000 digit large scale readout

Storage temperature

-20°C - +60°C (80% RH) (batteries removed)

Operating altitude

2000 m

EMC

IEC/EN 61326-1

Dimensions

DCM310 - 56 mm (W) x 180 mm (H) x 32 mm (D)

DCM320 - 56 mm (W) x 188 mm (H) x 28 mm (D)

Weight

DCM310 - 250 g including battery

DCM320 - 225 g including batteries

Warranty

1 year

ORDERING INFORMATION

Item (Qty)	Order Code	Item (Qty)	Order Code
DCM310-EN Digital clamp meter, 400 A a.c.	1000-303	Replacement test leads	
DCM320-EN Digital clamp meter, 600 V a.c.		Red/black test leads with croc clips	6220-779
and d.c.; 20 MΩ	1000-304	Red/black fused test leads (500 mA)	
Included accessories		with croc clips	6220-789
Battery			
Pouch			
User guide			
Test leads (DCM320 only)			

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,
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Registered to ISO 14001:1996 Cert no. EMS 61597

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