

# 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 $\Omega$  Resistance (DCM320)**
- **IEC61010 CAT III 600 V**

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### 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 $\Omega$ , via the terminals and supplied test leads. It also has a continuity buzzer that operates up to 20  $\Omega$ .

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	
<b>AC current</b> (50 - 60 Hz)	<b>Range</b>	<b>Accuracy</b>	<b>Range</b>	<b>Accuracy</b>
	0-19.99 A	±3% ±0.05 A	0-40.0 A	±1.9% ±10 digits
	20.0-199.9 A	±2% ±0.5 A	40.0-200.0 A	±1.9% ±5 digits
	200-400 A	±2% ±0.5 A	201-400 A	±1.9% ±5 digits
<b>Position error:</b>			±1.5% of reading	
<b>DC and AC volts</b>			<b>Ranges</b> 0 - 200.0 V    200.0 - 600.0 V	
<b>Accuracy</b>			<b>DC</b> ±1.0% ±2 dgts	<b>AC</b> ±1.5% ±5 dgts (50-500 Hz)
<b>Continuity buzzer</b>			<b>On:</b> <20 Ω <b>Off:</b> >50 Ω <b>Response time:</b> <50 ms	
<b>Resistance</b>			<b>Range</b>	<b>Accuracy</b>
			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
<b>Sample rate:</b> 2.5 times per second			1.5 times per second	
<b>Overrange display</b>			"OL"	
<b>Power requirements</b> 1 x PP3 9 V alkaline battery			2 x AAA 1.5 A alkaline battery	
<b>Battery life:</b> 580 hours <b>Auto off:</b>			200 hours 10 mins. after power off	
<b>Operating temperature</b>			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	<b>Replacement test leads</b>	
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)	
<b>Included accessories</b>		with croc clips	6220-789
Battery			
Pouch			
User guide			
Test leads (DCM320 only)			

Registered to ISO 9001:2008 Cert no. Q 09250  
 Registered to ISO 14001:2004 Cert no. EMS 61597

**DCM310\_DCM320\_DS\_en\_V04**

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