

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**

DCM310 and DCM320 Digital clamp meter

SPECIFICATION

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

DCM310			DCM320	
AC current (50 - 60 Hz)	Range 0-19.99 A 20.0-199.9 A 200-400 A	Accuracy ±3% ±0.05 A ±2% ±0.5 A ±2% ±0.5 A	Range 0-40.0 A 40.0-200.0 A 201-400 A	Accuracy ±1.9% ±10 digits ±1.9% ±5 digits ±1.9% ±5 digits
Position error:			±1.5% 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 200.0 Ω 2.000 KΩ 20.00 KΩ 200.0 KΩ 2.000 MΩ 20.00 MΩ	Accuracy ±1% ±5% digits ±0.7% ±2 digits ±0.7% ±2 digits ±0.7% ±2 digits ±1.0% ±2 digits ±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: 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	

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

Description	Part number	Description	Part number
DCM310-EN Digital clamp meter, 400 A a.c.	1000-303	<u>Optional accessories</u>	
DCM320-EN Digital clamp meter, 600 V a.c. and d.c.; 20 MΩ	1000-304	<u>Replacement test leads</u>	
<u>Included accessories</u>		Red/black test leads with croc clips	1002-001B
Battery		Red/black fused test leads (500 mA) with croc clips	1002-015B
Pouch			
User guide			
Test leads (DCM320 only)			

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ISO 9001
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