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 MΩ 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 MΩ, 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 23ºC ±5º 85% RH

	DCM310		DCM320	
AC current (50 - 60 Hz)	**Range**	**Accuracy**	**Range**	**Accuracy**
	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
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**	**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		200 hours	
Auto off:			10 mins. after power off	
Operating temperature	0 - 30ºC	80% RH		
	30 - 40ºC	75% RH		
	40 - 50ºC	45% RH		

Applies to both clampmeters

Safety rating
IEC/EN61010-1 CAT III 600 V

Temperature coefficient
0.2 x (specified accuracy) / ºC (<18 ºC >28 ºC)

Maximum conductor size
27 mm diameter

LCD
2000 digit large scale readout

Storage temperature
-20 ºC - +60 ºC (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
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
Included accessories	
Battery	
Pouch	
User guide	
Test leads (DCM320 only)	

Item (Qty)	Order Code
Replacement test leads	
Red/black test leads with croc clips	6220-779
Red/black fused test leads (500 mA) with croc clips	6220-789

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