

DCM 330 Fork Multimeter



- 200.0 A ac Open Jaw current measurement
- 0.1 V to 1000 V auto-ranging ac and dc voltage measurement
- 0.1 Ω to 20.00 M Ω resistance range
- Continuity buzzer and diode check
- Non-contact detection of AC voltage
- CAT III 1000V and CAT IV 600 V

DESCRIPTION

The Megger DCM330 Fork Multimeter is a convenient, compact instrument designed to measure ac current up to 200 A, and perform the basic functions of a basic multimeter.

With ac and dc voltage measurements up to 1000 V and resistance measurements up to 20 M Ω , a non-contact voltage detection facility and a continuity buzzer with diode check, the Megger DCM330 is a truly versatile instrument. All of these features combined into a single compact instrument eliminate the need for separate multimeter and clampmeter.

The large central range knob enables ambidextrous singlehanded use, and the separate voltage/resistance test leads can be disconnected when not in use.

The open-jaw design of the clampmeter enable simple and fast measurements to be made on single conductors up to 16 mm diameter. With no moving clamp parts, the Megger DCM330 is not susceptible to dirt, grit or moisture around the cable, so is equally ideal for use in dirty trenches or trunking; or clean laboratory conditions. It provides average responding RMS values, and with the conductor(s) positioned centrally and squarely within the jaws, achieves readings of better than 3% accuracy.

The Megger DCM330 is auto-ranging on all ranges. Current measurement and the non-contact voltage sensor do not need the test leads; all other functions will require their use.

The voltage detection function can identify the presence of live AC voltages from 50 V to 1000 V at 50 to 500 Hz.

It is operational on any range including OFF. Voltage is capacitively detected, signalled by a tone sounding and the illumination of a red LED situated below the clamp head.

The Megger DCM330 is powered by 2 x AAA cells providing 250 hours of operation, and has an auto-off feature that activates after approximately 10 minutes.

The tough body provides easy and comfortable grip, providing durability while stored in a tool box or pocket. The DCM330 is designed to withstand a 1.22m (4 feet) drop without damage.

The display is a large 3 1/2 digit LCD. In difficult or awkward locations, the display can be frozen with the "HOLD" function, removed from the cable under test and read independently.

APPLICATION

The DCM330 is suitable for use anywhere where there is a requirement to measure ac current in single unshielded conductors less than 16mm diameter, or ac/dc voltages up to 1000 V, or resistances up to 20 M Ω .

Typical applications include domestic and industrial wiring installation fault-finding, basic load analysis, equipment commissioning and maintenance, machinery installations, etc.

Note: The non-contact Voltfinder function is intended to identify live cables within the jaws, and is not suitable for use on shielded conductors such as armoured cable or those within or behind metallic or conductive panels, in metal conduit, etc.

FEATURES AND BENEFITS

- Compact pocket sized design
- Auto power-off
- Supplied with detachable test leads and carrycase

SPECIFICATIONS

Note	(accuracies specified at 23 °C)														
AC current	<table> <thead> <tr> <th>Frequency</th> <th>Range</th> <th>Accuracy</th> </tr> </thead> <tbody> <tr> <td>50 - 60 Hz</td> <td>0-200.0 A</td> <td>±3% ±3 digits</td> </tr> </tbody> </table> <p>Average sensing, RMS indicating Overload protection: 400 A rms</p>	Frequency	Range	Accuracy	50 - 60 Hz	0-200.0 A	±3% ±3 digits								
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AC/DC volts	<table> <thead> <tr> <th>Range</th> <th>DC</th> <th>AC</th> </tr> </thead> <tbody> <tr> <td>200.0 V</td> <td>±1% ±2 digits</td> <td>±1.5% ±5 digits</td> </tr> <tr> <td>1000 V</td> <td>±1% ±2 digit</td> <td>50 Hz - 500 Hz</td> </tr> </tbody> </table> <p>Input impedance: 2 MΩ (<100 pF) Overvoltage protection: 1000 V</p>	Range	DC	AC	200.0 V	±1% ±2 digits	±1.5% ±5 digits	1000 V	±1% ±2 digit	50 Hz - 500 Hz					
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Diode check	<p>1 mV: ±1.5% ±0.05 V Overvoltage protection: 600 V rms</p>														
Continuity buzzer	<p>Buzzer operates: <50 Ω Turns off: >250 Ω Response time: 0.25 sec - 1 sec</p>														
Display	<p>3 ½ digit large LCD 2000 count Sample rate: 1.5/sec Overrange: "OL"</p>														
Auto power down	10 minutes after power on														
Battery	R03 UM4 AAA 1.5 V x 2 (not suitable for rechargeable cells)														
Battery life	Life: 250 hours (alkaline cells)														
Calibration accuracy	12 month recommended														
Maximum altitude	2000 m														
Operating temperature range and humidity	<p>0 °C - 30 °C (>80% RH) 30 °C - 40 °C (>75% RH) 40 °C - 50 °C (>45% RH)</p>														
Storage temperature range and humidity	-20 °C - +60 °C (0 - 80% RH) (batteries not fitted)														
Safety	IEC61010-1 1000 V CAT III 600 V CAT IV														
EMC	EN 61326-1														
Drop protection	1.2 m drop onto hard floor														
Dimensions	68 mm (B) x 237 mm (H) x 42 mm (T)														
Weight	280 g (battery installed)														

ORDERING INFORMATION	
Description	Order Code
Fork Multimeter; 200A ac; 1000V dc	1000-219
Included accessories	
Batteries	
Pouch	
Test leads	
User guide	
Optional accessories	
Replacement test leads	
Replacement Red/Black Test lead set	1002-001B
Fused Red/Black test lead set	1002-015B

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The word 'Megger' is a registered trademark

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