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Clarke[®]
INTERNATIONAL

Hemnal Street, Essex CM16 4LG

Clarke[™]

DIGITAL MULTIMETER

Model No: CDM3

Part No. 4500030

Operating Instructions

WARNING

Before using this instrument, you should read and fully understand this instruction leaflet.

Failure to understand and comply with the warnings and operating instructions can result in serious or even fatal injury and/or damage to property.



0507

Battery - 1.5V Size AA: Fuse - 0.5V 240V fast blow

Replacement Parts

- | | |
|---------------|---------------|
| 1. Test Leads | Part No.CH301 |
| 2. Fuse | Part No.CH302 |

Parts and Service

For spare parts and servicing, please
contact your nearest dealer,
or CLARKE International
as follows:


Parts & Service

TEL: 020 8988 7400

or e-Mail:

parts@clarkeinternational.com

service@clarkeinternational.com

 DO NOT dispose of this product with general household waste. It must
be disposed of according to all laws governing waste electrical and
electronic products at a recognised disposal facility

Resistance

WARNING:
Before testing a resistor in a circuit, make sure that all power is removed from that circuit, and that all capacitors are discharged.

1. Plug the test leads into their respective sockets.
2. Select the required range.
3. Short out the leads, and turn the adjuster located on the side of the meter, until a zero reading is obtained.
4. Connect the leads to the resistor to be tested and take the reading from the scale.

NOTE: If the range is changed, the needle must be re-zeroed before taking a reading.

Battery Test

1. Plug the test leads into their respective sockets.
2. Connect the red test lead to the positive terminal of the battery, and the black test lead to the negative.
3. The meter will indicate whether battery is serviceable or not.

Battery and Fuse replacement.

1. Disconnect test leads to ensure there is no possibility of them being connected to a circuit.
2. Remove the single retaining screw from the back cover, and remove cover.
3. Prise out Battery or Fuse from their holders, and replace with one of the same size and rating.

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Introduction

Thank you for purchasing this CLARKE Analogue Multimeter, designed to measure A/C, D/C Volts, D/C Current, and Resistance, with a built in Battery Tester. It is ideal for use in workshops, laboratories, and for the hobbyist, and used with care and consideration, will give years of satisfactory service.

Guarantee

This product is guaranteed against faults in manufacture from 12 months from purchase date. Keep your receipt as proof of purchase. This guarantee is invalid if the product has been abused or tampered with in any way, or not used for the purpose for which it was intended. The reason for return must be clearly stated. This guarantee does not affect your statutory rights.

Features

- 16 position Rotary Switch for Function and Range selection.
- All ranges fully protected.
- Needle Zeroing facility.
- Zero resistance needle adjust facility.
- D/C Voltage measurement from 0.05V to 500V.
- A/C Voltage Measurement from 0.2V to 500V
- D/C Current measurement from 0.1uA to 250mA.
- Resistance measurement from 0.1 ohms to 1Kohms.
- 1.5V and 9V Battery tester.

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Specifications

- D/C Voltage range - 2.5, 10, 50, 250, 500V
- A/C Voltage range - 10, 50, 250, 500V
- D/C Current range - 500 μ A, 10mA, 250mA
- Resistance - 1Ohm to 2kOhm
- Max. common mode voltage - 500V DC/AC rms
- Power supply - 1 x 1.5V size AA battery
- Battery test - 1.5V - 9V
- Accessories - Set of test leads, fuse.

Operation

Before operating this meter, and to ensure accurate readings, the needle must be set to zero, by turning the adjuster screw, in the centre of the meter, as necessary.

WARNING:

**On no account must the voltage under test exceed 500V D/C
A/C rms**

D/C Voltage

1. Plug the black test lead into the "-" socket, the red lead into the "+" socket.
2. Set range selector to D/C volt range required

IMPORTANT: If the voltage is not known beforehand, then select the highest range and work down until a satisfactory reading is obtained.

3. Connect red test lead to the positive polarity of the circuit, and black test lead to the negative.
4. Take the reading from the appropriate scale.

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A/C Voltage

1. Plug the test leads into their sockets.
2. Set the range selector to the A/C voltage range required.

IMPORTANT: If the voltage is not known beforehand, then select the highest range and work down until a satisfactory reading is obtained.

3. Connect the test leads to the circuit regardless of polarity.
4. Take the reading from the appropriate scale.

D/C Current

WARNING:

Maximum current must not exceed 250mA

1. Plug the black test lead into the "-" socket, the red lead into the "+" socket.
2. Set the range selector to the D/C current range required.

IMPORTANT: If the Current is not known beforehand, then select the highest range and work down until a satisfactory reading is obtained.

3. Switch off the current to the circuit, and break where required.
4. Connect the test leads in series with the circuit, the red lead to the positive polarity, and black test lead to negative, and switch on the current.
5. Take the reading from the appropriate scale.

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