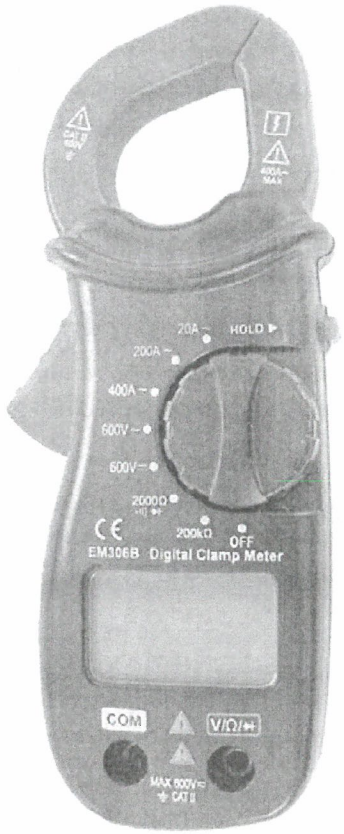
Clarke®



OPEN JAW DIGITAL MULTIMETER

MODEL No: CDM85

Part No: 4500095

OPERATING & MAINTAINENCE INSTRUCTIONS

CE

ORIGINAL INSTRUCTIONS

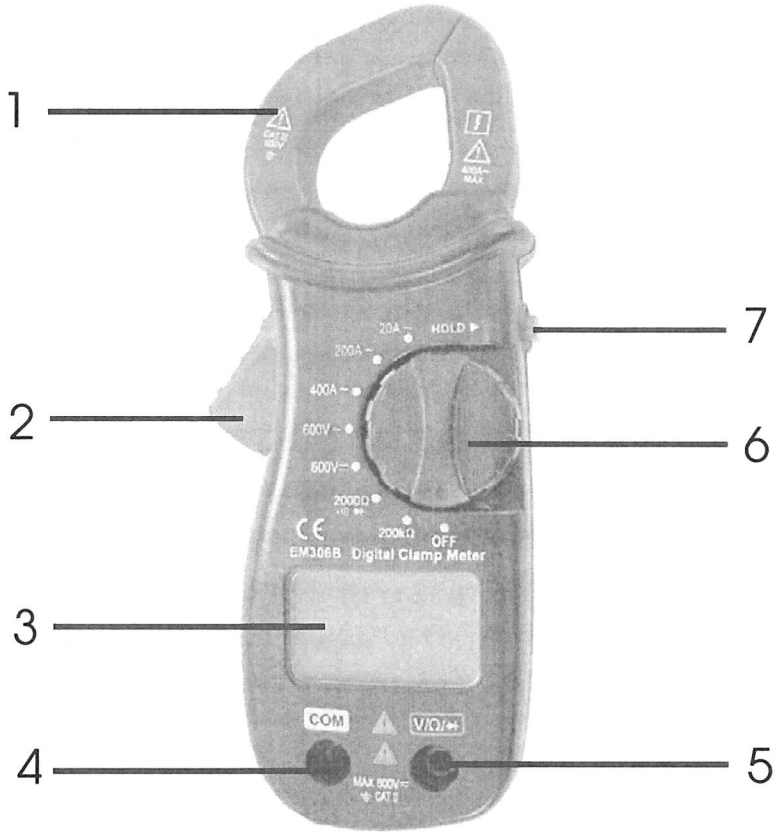
GC1120 - ISS 2

WARNING

To avoid possible electric shock or personal injury, follow these guidelines:

- Do not use the meter if it is damaged. Before you use the meter, inspect the case. Pay particular attention to the insulation surrounding the connectors.
- Inspect the test leads for damaged insulation or exposed metal. Check the test leads for continuity. Replace damaged test leads before you use the meter.
- Do not use the meter if it operates abnormally. Protection may be impaired. When in doubt, have the meter serviced.
- Do not operate the meter around explosive gas, vapor, or dust.
- Do not apply more than the rated voltage, as marked on the meter, between terminals or between any terminal and earth ground.
- Before use, verify the meter's operation by measuring a known voltage.
- When servicing the meter, use only specified replacement parts.
- Use with caution when working above 30V ac rms, 42V peak, or 60V dc. Such voltages pose a shock hazard.
- When using the probes, keep your fingers behind the finger guards on the probes.
- Connect the common test lead before you connect the live test lead. When you disconnect test leads, disconnect the live test lead first.
- Remove the test leads from the meter before you open the battery door or measure AC current.
- Do not operate the meter with the battery door or portions of the case removed or loosened.
- To avoid false readings, which could lead to possible electric shock or personal injury, replace the batteries as soon as the low battery indicator appears.
- Before using the clamp jaws to clamp the conductor to be measured, make sure that all the test leads have been removed from the clamp meter.
- Remove test leads from the meter and remove the clamp jaw from the clamped conductor before opening the meter case or the battery door.

PARTS ID



1. **Clamp Jaw**
   Used to clamp the conductor to be measured. To get more accurate reading, the conductor should be in the center of the jaws.
2. **Trigger**
   Used to open and close the jaws for AC current measurement.
3. **Display**
   3 1/2-digit LCD, with a max. reading 1999.
4. **"COM" Jack**
   Plug-in jack for the black (Negative) test lead.
5. **"V Q -0+" Jack**
   Plug-in jack for the red (Positive) test lead.
6. **Rotary Switch**
   Used to select desirable function and range as well as to turn the meter on/off.
7. **"HOLD" Button**
   After pressing the button, the present reading is held on the display, meanwhile "HOLD" is displayed on LCD as an indicator. To exit the Hold Mode, press the button again and the indicator "HOLD" will disappear.

Measuring Resistance

1 Insert the plug of the black test lead to the "COM" jack, the plug of the red test lead to the 'V Ω →+' jack.

2 Set the rotary switch to the desired resistance range position ("2000Ω" or "200kΩ").

3 Connect the test leads across the load to be measured.

4 Read the reading on LCD.

Note:

The built-in buzzer will sound when the resistance being measured is less than about 30Ω with the rotary switch in "2000Ω" position.

Before you do in-circuit resistance measurement, make sure that the power of the circuit has been disconnected and all the capacitors have been discharged.

Measuring for continuity

1 Insert the plug of the black test lead to the "COM" jack, the plug of the red test lead to the 'V Ω →+' jack.

2 Set the rotary switch to the " •))) " position.

3 Connect the test leads across the load to be measured.

4 When the resistance being measured is less than about 30Ω, the buzzer will sound.

Measuring Diode

1 Insert the plug of the black test lead to the "COM" jack, the plug of the red test lead to the 'V Ω →+' jack. (the polarity of the red test lead is "+").

2 Set the rotary switch to the "→+" position.

3 Connect red test lead to the anode of the diode, black test lead to the cathode of the diode.

Read the approximate forward voltage on LCD.

Note: Reading's unit is "mV".

AC Current

Range	Resolution	Accuracy	Overload Protection
20A	10mA	±(3.0%+5)	500A (30 Seconds)
200A	100mA	±(2.5%+5)	500A (30 Seconds)
400A	1A	±(2.5%+5)	500A (30 Seconds)

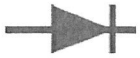
Response: Average, calibrated in rms of a sine wave

Frequency range: 50 ~ 60 Hz

Audible Continuity

Range	Resolution	Accuracy
	1Ω	When the resistance drops below about 30Ω ,The buzzer will sound

Diode

Range	Resolution	Accuracy	Overload Protection
	1mV	Approx. forward voltage drop will be displayed. (open circuit voltage is around 3V)	DC 250V AC 250Vrms

DECLARATION OF CONFORMITY

CE

Clarke® INTERNATIONAL

Hemnall Street, Epping, Essex CM16 4LG

DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following directive(s):

2014/30/EU *Electromagnetic Compatibility Directive.*

2011/65/EU *Restriction of Hazardous Substances (amended by (EU) 2015/863).*

The following standards have been applied to the product(s):

EN 61326-1:2013, EN 61326-2-2:2013.

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned directive(s) has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2006

Product Description:	Open Jaw Digital Multimeter
Model number(s):	CDM85
Serial / batch Number:	N/A
Date of Issue:	10/11/2020

Signed:

J.A. Clarke

Director