



CHAMP-PRO

QUALITY PRODUCTS

AIR COMPRESSORS
From DIY to industrial. Plus oil tools, spray guns and accessories.

GENERATORS
Prime duty or emergency standby for business, home and leisure.

POWER WASHERS
Hot and cold, electric and engine driven - we have what you need.

WELDERS
Mig, Arc, Tig and Spot. From DIY to auto/industrial.

METALWORKING
Drills, grinders and saws for DIY and professional use.

WOODWORKING
Saws, sanders, lathes, mortisers and dust extraction.

HYDRAULICS
Cranes, body repair kits, transmission jacks for all types of workshop use.

WATER PUMPS
Submersible, electric and engine driven for DIY, agriculture and industry.

POWER TOOLS
Angle grinders, cutters, till sets, saws and sanders.

STARTER/CHARGERS
All sizes for car & commercial use.

A SELECTION FROM THE VAST RANGE OF

DIGITAL CLAMP METER
MODEL No. CDM55
OPERATING INSTRUCTIONS



CE

0501

CHAMP-PRO INTERNATIONAL
Hemnell Street, Epping, Essex, CM16 4LG, ENGLAND
Telephone 01992 565533 Fax 01992561562
e-mail: Parts@champprointernational.com Service@champprointernational.com
For spares and servicing, please contact your nearest dealer, or Circle International on 020-8988-7400



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Thank you for purchasing this CLARKE CDM55 Digital Clamp Meter - a robust, portable, multi-range instrument, capable of measuring DC Voltage, A/C Voltage, Current, and Resistance, with an audible continuity function. Ideal for maintenance and inspection work on all types of electrical equipment.

Please read this leaflet thoroughly and follow the instructions carefully, in doing so you will ensure that operations are carried out in complete safety, and you can look forward to the tool giving you long and satisfactory service.

GUARANTEE

This CLARKE product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt as proof of purchase. This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not effect your statutory rights.

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SPARE PARTS & SERVICING

For Spare Parts and Servicing, please contact your nearest dealer, or CLARKE International, on one of the following numbers:

PARTS - 020 8558 6696 : SERVICE - 020 8556 4443

PARTS & SERVICE FAX - 020 8558 3622

PARTS E-MAIL - Parts@clarkeinternational.com

SERVICE E-MAIL - Service@clarkeinternational.com

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BATTERY REPLACEMENT

If the sign "BATT" appears on the display, it indicates that the battery should be replaced. Remove the battery cover from the rear of the unit, secured with one hex head screw, then remove the battery and replace with a new one.

SPARE PARTS

Spare test leads are available from your Clarke dealer. Please quote the following part numbers:

BLACK test lead: Part No. KA5501
RED test lead: Part No. KA5502

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SAFETY

Read this information before using the meter. The following safe practices and proper operating procedures should be followed when using any multimeter:

- Inspect the test leads for insulation damage or exposed metal. Damaged leads should be replaced.
- Select the proper Function and range for your measurement.
- Avoid severe shocks to the multimeter - do not drop.
- Do not allow the meter to be used if it is damaged or if its safety is impaired.
- **WARNING: TO AVOID ELECTRIC SHOCK, USE CAUTION WHEN WORKING ABOVE 40V DC OR 25V AC RMS. SUCH VOLTAGES POSE A SHOCK HAZARD.**
- Always disconnect the positive test lead before disconnecting the earth test lead.
- Follow all equipment safety procedures. Disconnect the input power and discharge all high-voltage capacitors through a protective impedance before testing any resistance (Ohms)
- Avoid working alone.
- When making a current measurement, turn the power off before connecting the multimeter in the circuit. Overloading a current shunt will cause excessive heat.
- When testing circuits take care not to touch any bare metal including the ends of the test probes.
- Never attempt to measure a voltage or current higher than the maximum rating of the meter.

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FEATURES

- AC Voltage measurement from 0.1 V to 600V.
- AC Current measurement from 0.01 A to 600A.
- DC Voltage measurement from 0.1 V to 600V.
- Resistance measurement from 0.1 to 200 ohms
- Continuity Beeper
- Data-Hold function
- Backlight function
- Small, compact, robust, and lightweight.

CE STANDARDS

This unit complies with 73/23/EEC, 89/336/EEC & IEC1010

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FUNCTION	RANGE	RESOLUTION	ACCURACY	OVERLOAD PROTECTION	INPUT IMPEDANCE
DCV	200V 600V	100mV 1V	±(0.5%rdg+1digit) ±(1%rdg+1digit)	600V DC or peak AC on all ranges	10M on all ranges
ACV	200V 600V	100mV 1V	±(1%rdg+5digits) ±(1%rdg+5digits)	600V DC or peak AC on all ranges	10M on all ranges (Frequency range : 50 to 400Hz response)
ACA	20A 200A 600A	10mA 100mA 1A	±(2%rdg+5digits) ±(2%rdg+5digits) ±(2%rdg+7digits)	600A 30 seconds	Frequency range : 50 to 400Hz response
Ω OHMS	200 Ω	0.1 Ω	±(1%rdg+3digits)	600VDC or peak AC on all ranges	Open circuit voltage approx. 2.6V Buzzer sounds if conductance is less than approx. 30 Ω ± 10 Ω

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SPECIFICATIONS

Max. Voltage between terminals and Earth	1000V DC or 750V RMS AC. (sine)
Power Supply	9V Battery - Neda1604 or 6F22
Display	LCD 1999 counts, updates 2-3 secs
Measuring method	Dual slope integration A/D converter
Over Range Indication	"1" appears on display
Polarity Indication	"-" displayed for negative polarity
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-10°C to 50°C (14°F to 122°F)
Low Battery Indication	"BAT" appears on display
Size (LxWxH)	214x81x41mm
Weight	380gm (incl. battery)
Part number	4500080

Please note: Accuracy is specified for 1 year after calibration, and at 18°C to 28°C (64°F to 82°F) with relative humidity to 80%.

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A. MEASURING VOLTAGE

1. Connect the BLACK test lead to the COM jack and the RED test lead to the V Ω jack.
2. Set the Rotary Switch to the desired DCV or ACV range position and connect the test leads across the source or load to be measured.

NOTE: If the figure "1" is displayed, it indicates an over range situation and a higher range should be selected.

B. MEASURING RESISTANCE

1. Connect the BLACK test lead to the COM jack and the RED test lead to the V Ω jack.
2. Set the Rotary Switch to the Ω position and connect the test leads across the resistor to be measured.

NOTE:
 (1) If the resistance to be measured exceeds the maximum value of the range selected or the input is not connected, an over range indication "1" will be displayed.

(1) When checking in-circuit resistance, ensure the circuit under test has all power removed and that all capacitors have been fully discharged.

C. CONTINUITY TEST

1. Connect the BLACK test lead to the COM jack and the RED test lead to the V Ω jack. (The polarity of the red lead is +ve)
2. Set the Rotary Switch to the ω) position and connect the test leads across two points of the circuit to be tested. If continuity exists, (i.e., resistance less than approx. 30 Ω), the built-in buzzer will sound.

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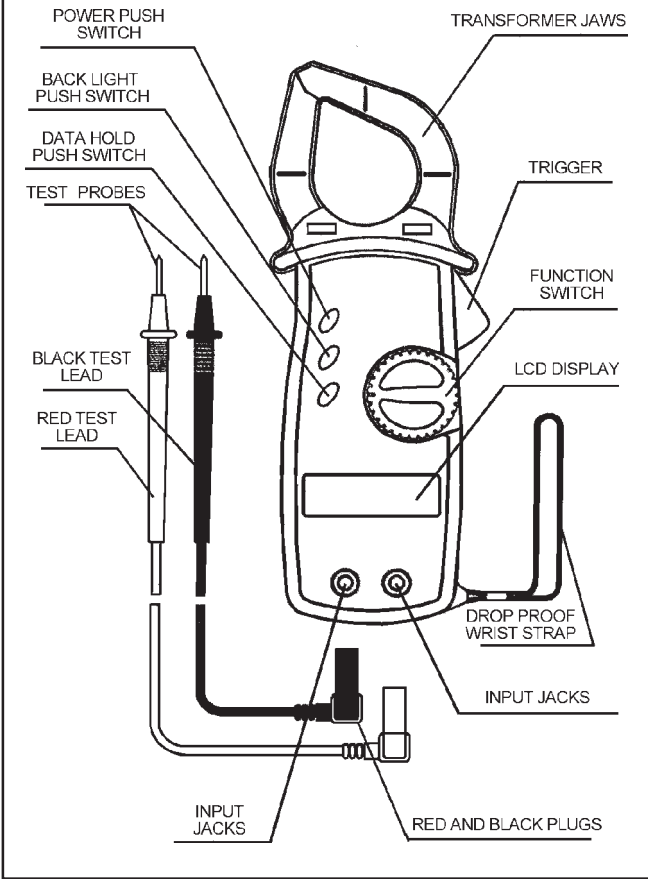
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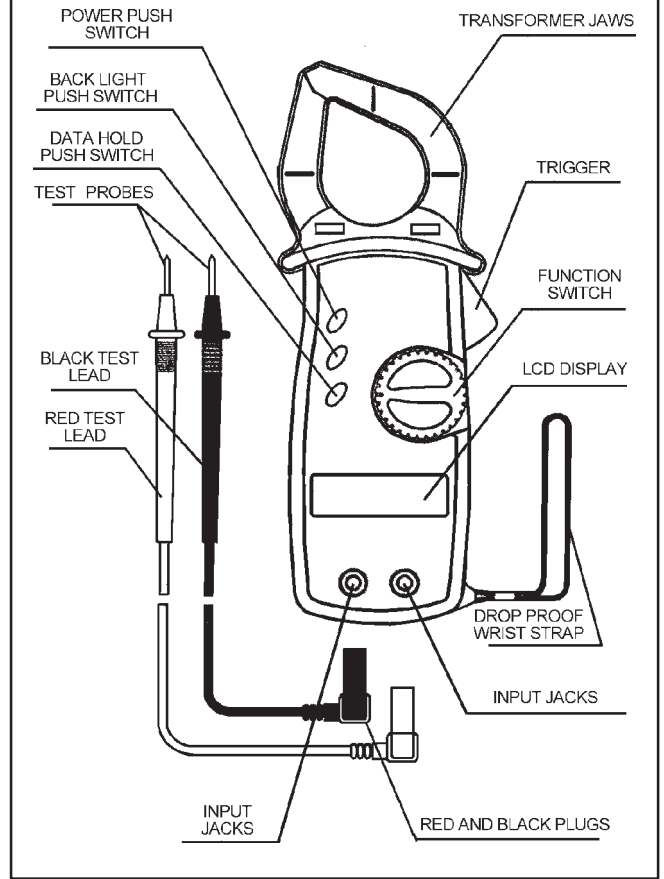
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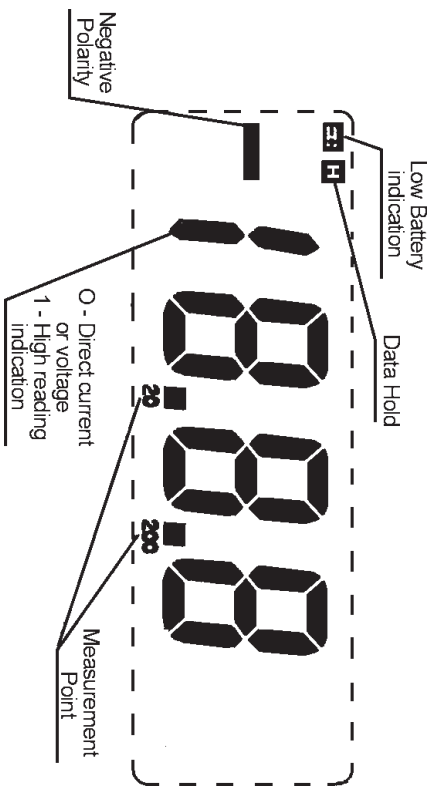
NOMENCLATURE



NOMENCLATURE



LCD DISPLAY



LCD DISPLAY

