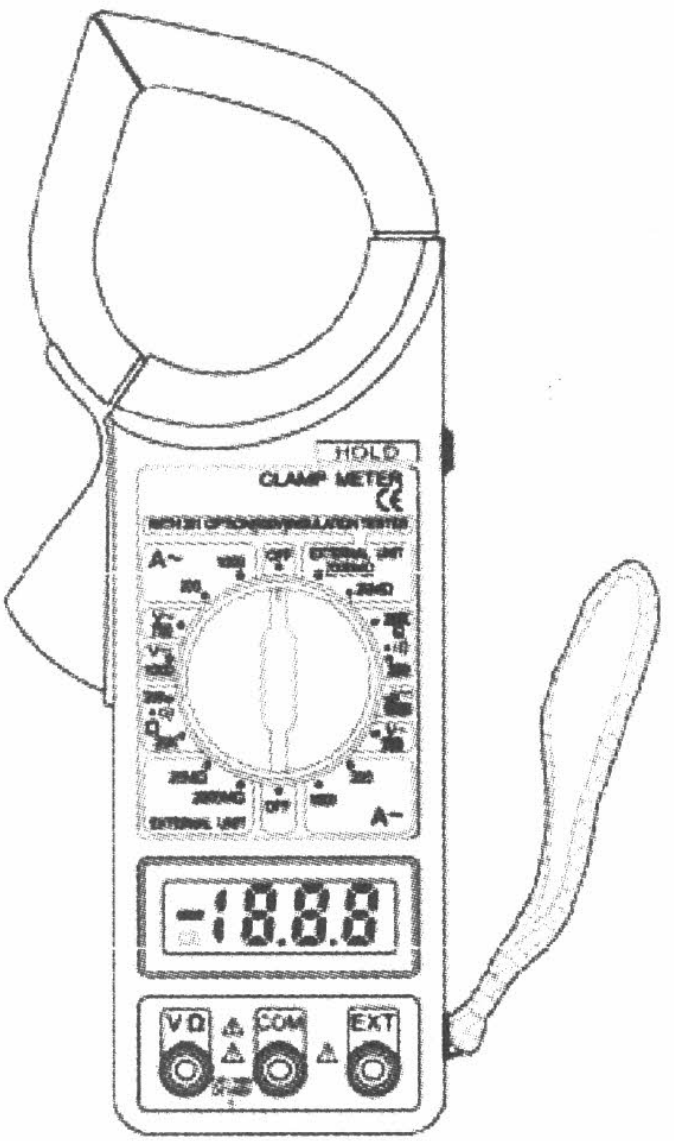
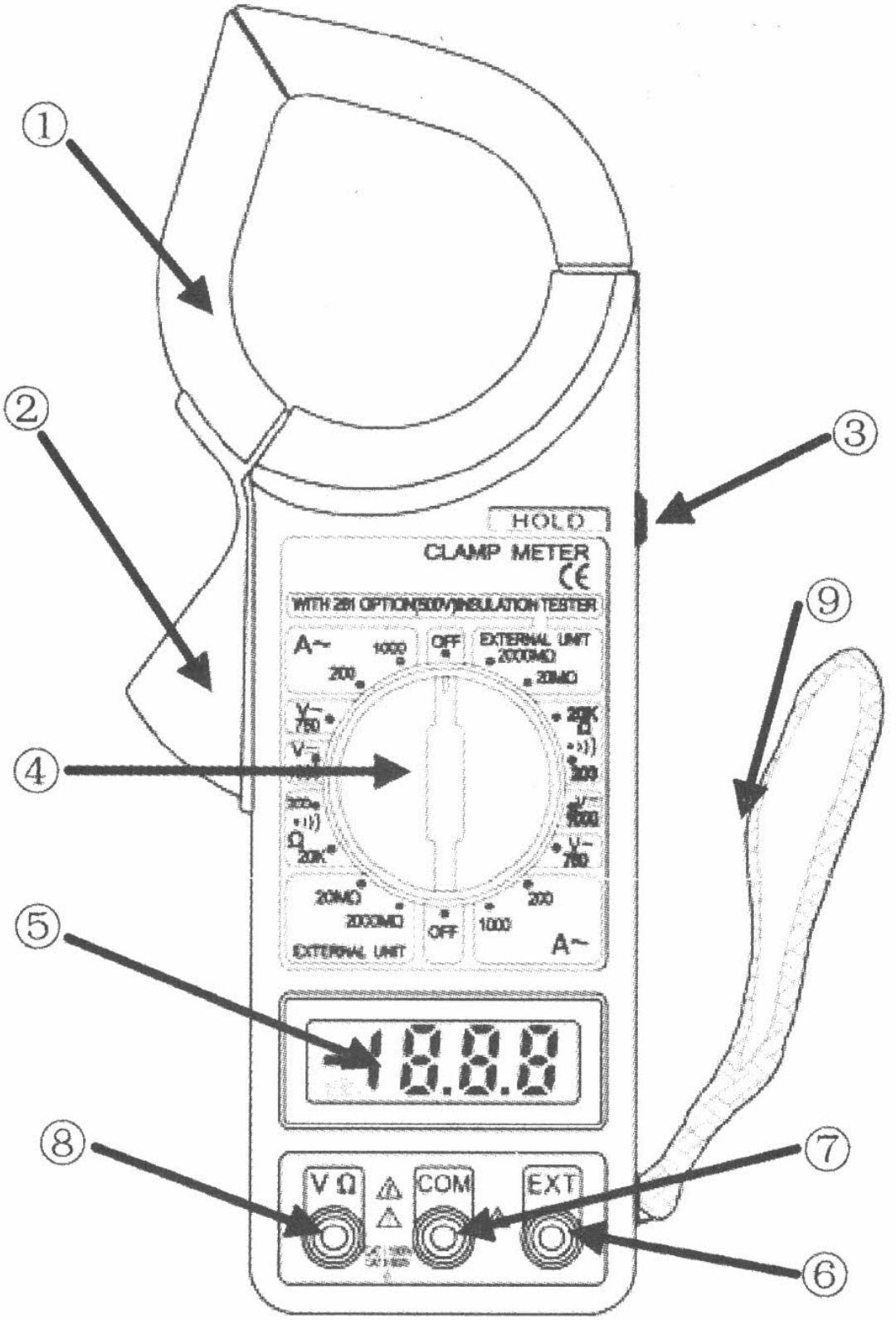
OPERATOR'S INSTRUCTION MANUAL

DIGITAL CLAMP METER



⚠ WARNING

READ AND UNDERSTAND THIS MANUAL BEFORE USING THE INSTRUMENT.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④
⑤
⑥
⑦
⑧
⑨
HOLD
CLAMP METER
WITH 2EI OPTION(600V)INSULATION TESTER
A~
1000
200
OFF
EXTERNAL UNIT
2000MΩ
20MΩ
750
V~
20K
200
1000
750
20MΩ
2000MΩ
EXTERNAL UNIT
OFF
1000
200
A~
V Ω
COM
EXT

① Transformer Jaws

Pick up the AC Current flowing through the conductor

② Trigger

Press the level to open the transformer jaws when the finger press on the level is released the jaws will close again.

③ Data Hold Switch

A push switch (pushes on, push off, do not pull to select function). All function and ranges with this feature.

④ Rotary Switch

A rotary switch is used to select measurement Function and Range switch.

⑤ Display

3 ½ digits (1999 counts), decimal point, minus polarity, Over range and "⊞" indicators.

⑥ EXT Input Connect

Used for accept insulation tester unit EXT banana plugs, when measurement insulation resistance.

⑦ COM Input Connect

Low input for all voltage, resistance, and continuity measurement will accept banana plugs. When measurement insulation resistance, used for accept insulation tester unit COM banana plugs.

⑧ VΩ Input Connect

High input for all voltage, resistance, and continuity measurement will accept banana plugs. When measurement insulation resistance, used for accept insulation tester unit VΩ banana plugs.

⑨ Drop-Proof Wrist Strap

Prevents the instrument from slipping off the hand while in use.

General Specifications

Max display: LCD 3 ½ digits, 1999 counts, 0.5" high
Polarity: Automatic, indicated minus, assumed plus.
Measure method: double integral A/D switch implement
Sampling speed: 2 times per second
Over-load indication: "1" is displayed
Operating Environment: 0℃~40℃, at <80%RH
Storage Environment: -10℃~50℃, at <85%RH
Power: 9V NEDA 1604 or 6F22
Low battery indication: "  "
Static electricity: about 4mA
Product Size: 230×68×37mm
Product net weight: 240g (including battery)

Technical Specifications

Accuracies are guaranteed for 1 year, 23℃±5℃, less than 80%RH

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
1000V	1V	±(1.0% of rdg + 5D)

OVERLOAD PROTECTION: 1000V DC or 750V rms for all ranges.

AUDIBLE CONTINUITY

RANGE	DESCRIPTION
	Built-in buzzer sounds if resistance is less then 30±20Ω

OVERLOAD PROTECTION: 15 second maximum 250V rms.

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
750V	1V	±(1.2% of rdg +5D)

RESPONSE: Average responding, calibrated in rms of a sine wave.
FREQUENCY RANGE: 45Hz ~ 450Hz
OVERLOAD PROTECTION: 1000V DC or 750V rms for all ranges.

AC Current (Average sensing, calibrated to rms of sine wave)

Ragnge	Resolution	Accuracy (50Hz ~ 60Hz)
200A	100mA	±(2.5% + 13)
1000A	1A	±(2.5% + 8) for 800A and below
		the reading is only for reference for more than 800A

Overload Protection: 1200A within 60 seconds.
Jaw Opening: 2.09" (53mm)

Insulation Test (With option 500V insulation tester unit)

Ragnge	Resolution	Accuracy
20MΩ	10KΩ	±(2% + 2)
2000MΩ	1MΩ	±(4% + 2) for 500MΩ and below
		±(5% + 2) for others

RESISTANCE

RANGE	RESOLUTION	ACCURACY
200Ω	0.1Ω	±(1.0% of rdg +10D)
20KΩ	10Ω	±(1.0% of rdg +4D)

MAXIMUM OPEN CIRCUIT VOLTAGE: 3V.
OVERLOAD PROTECTION: 15 seconds maximum 250Vrms.

OPERATING INSTRUCTIONS

AC CURRENT MEASURE

1. Make sure that "Data Hold" Switch is no pressed.
2. Set Range Switch to the ACA 1000A range. If the display indicates one or more leading zeros. Shift to the 200A range to improve the resolution of the measurement.
3. Press the trigger to open the transformer jaws and clamp one conductor only it is impossible to make measurements when two or three conductors are clamped at the same time.
4. Display reading is flow the conductor AC current.

INSULATION RESISTANCE TESTER

1. Set Range Switch to the insulation tester 2000MΩ range. This condition the display value is unstable that is normal.
2. The insulation tester unit VΩ-COM-EXT three banana plugs insert to clamp meter VΩ-COM-EXT three input connector.
3. Set the insulation tester unit range switch to the 2000MΩ position.
4. Use the insulation tester unit of the test leads

connect its L-E input connect to being tested installation's (test installation's must be power off)

5. Set the insulation tester power switch to the ON position.
6. Depress the PUSH 500V push-push switch, the 500V on red LED lamp will light. Clamp meter display reading is the insulation resistance value if the reading is below 19MΩ, change clamp meter and insulation tester unit to 20MΩ range, can be increase the accuracy.
7. If the insulation tester unit is not use the power switch must shift to power OFF position, and the test leads must leave the E-L input connect, that can be increase battery life and prevent electrical shock hazard.

DC & AC VOLTAGE MEASUREMENT

1. Connect red test lead to "VΩ" jack, Black lead to "COM" jack.
2. Set RANGE switch to desired VOLTAGE position, if the voltage to be measured is not known beforehand, set switch to the highest range and reduce it until satisfactory reading is obtained.
3. Connect test leads to device or circuit being measured.
4. Turn on power of the device or circuit being measured voltage value will appear on Digital Display along with the voltage polarity.

RESISTANCE MEASUREMENT

1. Red lead to "VΩ". Black lead to "COM".

2. RANGE switch to desired Ω position.
3. If the resistance being measured is connec- ted to a circuit, turn off power and discharge all capacitors before measurement.
4. Connect test leads to circuit being measured.
5. Read resistance value on Digital Display.

AUDIBLE CONTINUITY TEST

1. Red lead to "VΩ", Black lead to "COM".
2. RANGE switch to "•))" position.
3. Connect test leads to two points of circuit to be tested. If the resistance is lower then 30Ω±20Ω, the buzzer will sound.

BATTERY REPLACEMENT

If "  " appears in display, it indicates that the battery should be replaced.

ACCESSORIES

- Operator's instruction manual
- Set of test leads
- Gift box
- 9-volt battery, NEDA 1604 6F22 type.