VC6056A™

3 1/2digit Auto-ranging Clamp meter Manual

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(6). Diode measurement and Continuity test

Range	Open voltage	Beeper
→+ ·))	>1.2V	<50Ω

Overload protection: 250V DC/AC RMS

Ⅶ、Service and Maintenance

(1). The instrument is a precise measuring instrument. Please avoid to using it in strong magnetic field, dusty atmosphere and corrosive area so as to prolong the usage life.

(2). In order to guarantee accuracy, be no means, one should enter when the instrument is in calibration condition or when its internal circuit is being altered. Incase of calibration need, enter website and proceed with panel calibration according to instruction.

(3). Check battery level regularly. Remove the batteries if you do not intend to use the unit for a long time.

(4). When changing battery, measurement of electricity should be cut-off and instrument should be switched off. Remove the 2 screws from battery door and take away the old battery that needs to be changed and renew with new.

(5). When cleaning the surface of instrument, it is advisable to employ mild cleanser with a piece of dry cloth. Using hard and corrosive matter with strong chemicals to clean instrument surface is strongly forbidden.

(6). In case of spilt water or being soaked in water, normal measurement should wait until water is dried up.

Content

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Ⅰ、Feature

1. Adopt 3 1/2 digit auto-ranging A/D convertor;
2. Adopt type AAA battery and independent door;
3. Data hold and Max value Hold
4. 200A/1500A AC/DC current range, the resolution is 0.1A.

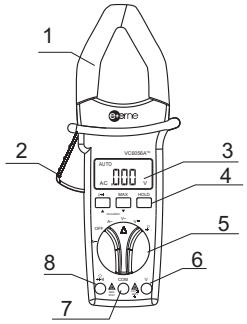
Ⅱ、Safety Precaution

Before the operation, please read the manual carefully.
The company only take the obligation for repairing the meter if the operator use the meter not according the manual.

照本说明书相关安全信息事项保作防超载仪表人身伤害，
本公司只承担仪表维修责任。

Ⅲ、General Descripetion

1. Jaw
2. Handle of the jaw
3. LCD screen
4. Function button
5. Rotary switch
6. V input terminal
7. COM input terminal
8. Ω⊣◀)))Input terminal



Input impedance: Approx. 10MΩ
Frequency response: 40Hz~400Hz
Display : sine wave RMS(average value)

(3). DC current measurement

Range	Resolution	Accuracy
200A/1500A ⎓	0.1A/1A	±(2.5%+5d)

(4). AC current measurement

Range	Resolution	Accuracy
200A/1500A~	0.1A/1A	±(2.5%+5d)

AC frequency response: 50Hz
Display: sine- wave RMS
remark: in AC/DC current range, the guaranteed environment temper is 23℃ ±2℃ the reading is a little lower than the actual temper when in high temper environment; instead in the low temper environment. The error is 5%

(5). Resistance measurement

Range	Resolution	Accuracy
200Ω ~2MΩ	0.1Ω~1KΩ	±(1%+3d)
20MΩ	10KΩ	±(3%+3d)

Overload protection: 250V DC/AC RMS

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V、General specification

Max. Reading: 1999 auto polarity
Measuring method: double-integrated A/D convertor
Sampling: three times per second
Over load display: LCD display symbol " OL "
Max. COM voltage: 500V DC/AC RMS
Work condition: 0℃～40℃; the relative humidity <80%
Storage condition: -10℃～50℃; the relative humidity < 85%
Power supply : three AAA batteries
Low voltage display:
Standby current: Approx. 20mA
Dimension: 244(L)X67(W)X38(H)
Diameter of the opening jaw: 35mm
Accessory: manual for the user, one set of test lead, batteries, ox ford bag, Type K temperature probe.

Ⅵ、Technological specification

(1). DC voltage measurement

Range	Resolution	Accuracy
200mV~600V ⎓	0.1mV	±（0.8%+3d）

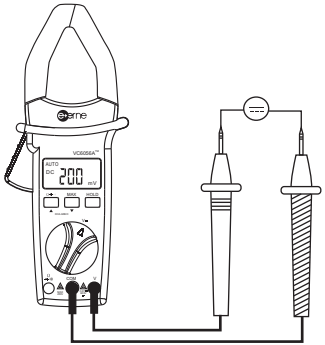
Input impedance: Aprox. 10MΩ

(2). AC voltage measurement

Range	Resolution	Accuracy
2V-600V~	1mV	±(1.2%+3d)

Ⅳ、Operation instruction

Precaution before operation:
1. The operator should read the manual firstly.
2. Break all of the connections before turning on the meter.
3. Check if the test leads are pluged properly
4. Check if the switch is in proper position.
5. View the LCD if there is low battery symbol "".



(Fig 4-1)

1. DC voltage measurement (Fig 4-1)

1). Turn the rotary switch to the V⎓ , LCD displays the DC symbol
2). Plug the red test lead into the V jack and the black into the COM jack respectively.
3). Connect the test leads to the tested load or the tested power.
4). View the reading. The red test lead connect to the positive.
5). The symbol " − " appears indicates the red test lead connected to the negative.

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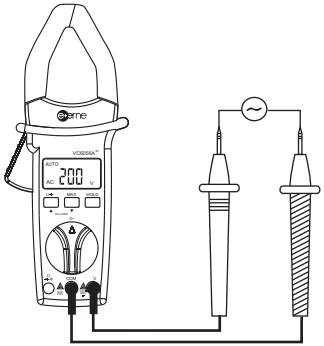

(Fig 4-2)

2. AC voltage measurement (Fig 4-2)

1). Select the V~ position, LCD display "AC" symbol.
2). Plug the red and test lead into the V jack and COM jack respectively.
3). Connect the test leads to the tested power or load.

7. Data hold

During the measuring, press HOLD button until hear DI sounds. LCD displays "H" symbol and the meter in the HOLD mode. The reading is locked. Press the button again to exit the mode.

8. Max. Hold

During measuring DCV, ACV, ACA, press and hold the button until hear DI sound. The symbol MAX appears and the meter in the Max. Hold mode. Press the button again to exit the mode.

9. Auto shut -off

1). During the measuring, the meter will be in sleep mode when there is no action in 15mins. Press any button to wake the meter up.
2). Press the HOLD button when turn on the meter, the function is be cancelled.
3). Part circuit is still working after auto shut-off. If no use for long time, please turn the switch to the OFF position to cut the supply.

10. Circuit protection function

During measurement, if the tested signal is more than 600V or high voltage rush, the meter will be protected automaticlly and LCD is locked. Please cut the supply at once. Turn on the meter can reset the meter.

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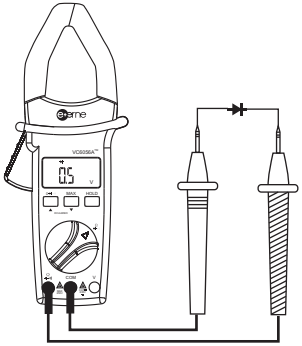


(Fig 4-6)

6. Diode and Continuity test (Fig 4-6)

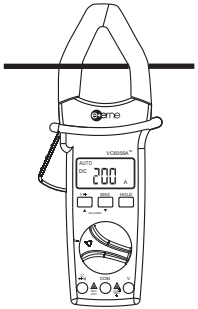
Turn the rotary switch to the Ω→+ •)) position, press the Ω→+ •)) button to change the mode. The meter is in the →+ or •)) mode. LCD display →+ or •)) . In the →+ mode, connect the red and black test lead to the diode, LCD display the basic voltage of the diode. Ge: 05-0.7V Si: 0.2-0.3V, instead , display OL; in the •)) mode, if the resistance of the tested element or the circuit is less than 50 Ω , beeper alarm and LCD display reading. If the resistance is more than 200 Ω or the circuit isbroken LCD display OL

3. DC current measurement (Fig 4-3)

1). Select the A⎓ position, LCD display DC symbol

2). Make the jaw clamp the tested conductive wire, input the meter the tested current. The reading is not Zero after take off the meter which is the remainence. Press the ▲▼ button to do Zero adjustment. Please subtract the reading if the failed Zero adjust ment.

3). After Zero adjustment, clamp the conductor wire again as above step and close properly. Get the reading from the LCD.



（图示 4-3）

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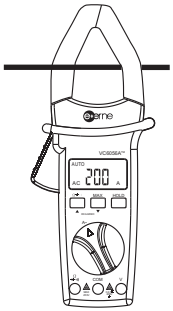
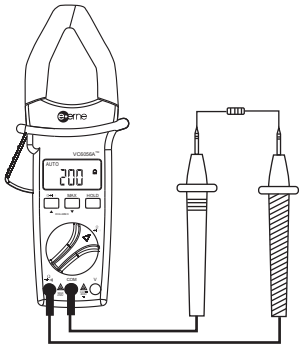


Fig 4-4

4. AC current measurement (Fig 4-4)

1). Turn the function switch to the A~ position, LCD displays AC symbol
2). Make the jaw clamp the tested wire in the geometry centre of the jaw. Close the jaw properly. The reading is displayed on the LCD.



(Fig 4-5)

4-5. Resistance measurement (Fig 4-5)

1). Select the Ω position.
2). Plug the red and black test leads into COM , Ω jacks respectively.
3). Connect the test leads to the tested load and get the reading from LCD display screen.
4). LCD display OL if the tested load is more than 20MΩ .

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