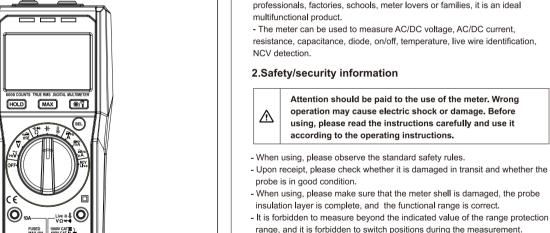
# Digital multimeter



- This product is a 6000-count automatic range digital multimeter. It h

When the meter is connected to the measuring circuit, the finger must be in

- If the measured voltage is higher than 60V DC or 30V AC (effective  $\mbox{valu}_{\sim}$ 

it should be handled with caution, and the highest voltage measured at C

end and V input end should not exceed AC 750V/DC 1000V.

unctions of MAX maximum value hold, HOLD data hold, temperati neasurement, automatic shutdown, backlight, flashlight, full range overl∕ tection and battery undervoltage indication, etc. Whether used by professionals, factories, schools, meter lovers or families, it is an ideal see the instruction manual.

> Safety use to avoid danger! Double insulation protection ( class I

Refers to the level of pulse withstand voltage protection CAT III provided by over-voltage (installation) level III and pollut

case to adjust or repair the meter.

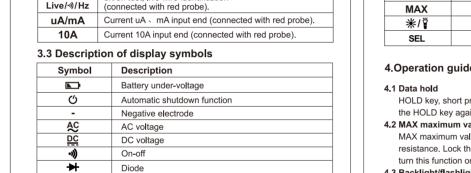
The meter should be far away from high temperature, humidity, corrosive

- If the meter is stained with dirt or dust, please clean it with a soft clot avoid electric shock caused by wrong reading, the battery should

the safe area of the probe sheath protection device, and it is forbidden

V/Ω/-I+/<del>>I</del>/&

placed immediately when the meter shows " ~ "symbol.



The meter can switch positions in AC/DC mV position, resistance posit

3.4 Key description

| 3.3 Description | on of display symbols            |          |
|-----------------|----------------------------------|----------|
| Symbol          | Description                      | 4.Oper   |
|                 | Battery under-voltage            | 4,1 Data |
| ڻ<br>ر          | Automatic shutdown function      | HOLI     |
| -               | Negative electrode               | the H    |
| AC              | AC voltage                       | 4.2 MAX  |
| DC              | DC voltage                       | MAX      |
| •1)             | On-off                           | resist   |
| →               | Diode                            | turn t   |
| °C/°F           | Degree Celsius/Fahrenheit degree | 4.3 Back |
| HOLD            | Reading hold                     | and le   |
| BAAV            |                                  |          |

If there is no operation after about 20 minutes of startup, the meter w automatically shut down and enter a dormant state. Press (SEL) key in automatic shutdown mode to restart it.

AC voltage/DC voltag

Press the HOLD key, turn the range knob to power on, the symbol (

on the upper left corner of the display disappears, the meter sounds five alarms, the automatic shutdown function is cancelled, and the function is resumed after it's shut down and restarted again.

5.How to use

(1) Turn the range knob to (  $\widetilde{\mathbf{v}}$  ) AC voltage. ration guide (2) Insert the black probe into the COM end and the red probe into the V input end. (3) The red and black probes contact the tested line, and the meter D key, short press the HOLD key to lock the measured data, and pr nce. Lock the maximum value of measured data, and short press it t ② During measurement of AC voltage, the screen displays the frequency the measured voltage at the same time. 3 The maximum input voltage of AC voltage is AC 750V/40HZ-1KHZ. 4 At the mV range of AC voltage, due to the interference of electromagne field in the use environment, the meter will have a numerical display ev if the probe is not input or inserted. If the probe is used to short-circu

(1) Turn the range knob to (  $\overline{\overline{\mathbf{v}}}$  ) DC voltage.

(2) Insert the black probe into the COM end and the red probe into the V inp (3) The red and black probes contact the tested line, and the meter screen

input end and the "COM" end, the meter display will return to zero

voltage when using. 2) The highest input voltage of DC voltage range is DC 10 ③ At the mV range of DC voltage, due to the interference electromagnetic field in the use environment, the meter will have

numerical display even if the probe is not input or inserted. If the p

Turn the range knob to (<sup>\*+</sup>Ω) on and off.

(2) Short press SEL key to switch to (  $\Omega$  ) resistance position

and the meter screen displays the measured valu

Insert the black probe into the COM end, and the red probe in

he red and black probes are connected to the measured resistant

The measured resistance on the circuit will be different from the actual

resistance of other components connected in series or in parallel and

DL" will be displayed to indicate that the measured value is out of rang

resistance, because there will be some error between the measure

### is used to short-circuit the "V" input end and the "COM" en display will return to zero, which is regarded as a normal phenomeno

### 5.3 Resistance measurement (1) Turn the range knob to ( ) diode position.

(2) Short press SEL key to switch to the ( >>> ) diode position (3) Insert the black probe into the COM end, and the

and the meter displays the measured voltage value

and the meter displays the measured capacitance valu

(1) Turn the range knob to ( ) on and off.

probe into the ( • 1) input end.

(2) Short press SEL key to switch to (4) on and off posit

(4) The red and black probes are connected to the tested

the indicator light (green light) is on, and the meter beeps

During on-off measurement, when the resistance is less than about 5

Insert the black probe into the COM end, and the re

### probe into the ( >>> ) input end. The red and black probes are connected to the diode und

the AC current position.

5.8 AC current measurement

(2) Short press SEL key to switch switch to (°C/°F)

(3) Measurement of K-type thermocouple: Connect the red plug of K-

necessary to place the meter in the current measuring environment

thermocouple to the (  $\ensuremath{\mathbb{Q}}$  ) input end, and the black plug into the "COM" eno.

constant temperature for about 15 minutes to make accurate measurement

(3) The frequency of the measured current can be displayed synchronously at

### Ouring the normal diode measurement, the meter shows that the for (2) Press SEL key to switch to AC current mode. voltage drop of the diode under test is about 0.5V --- 0.8V, and the reverse

### To avoid damage to the instrument or equipment under test, cut off the resistance of the circuit under test and discharge all high voltage capacitor

(4) Insert the black probe into the COM input (5) When the measured current is less than 6000uA, turn the range knob to

nd the red probe into the ( ++ ) input end. (6) When the measured current is between 6000 uA and 600 mA, turn ) The red and black probes are connected to the measured capa

(7) When the measured current is 600 mA-10A, turn the range knob to posit A for measurement, and insert the red probe into the input end of 1 hen measuring the capacitance, it is necessary to dischar

apacitance first. During measurement the meter charges the capa

5.9 DC current measurement

(3) Insert the black probe into the COM input.

(4) When the measured current is less than 6000uA, turn the range ki

(6) When the measured current is 600mA -10A, turn the range kno.

position A for measurement, and insert the red probe into the input end of

es load and correct range position should be used when measur

During current measurement, if the measured value is not displayed of

screen, please check whether the fuse is fused. If the fuse is damaged, the

If the current is unknown, turn the position to the maximum range

rent position, and over-range measurement is prohibited

Series load and correct range position should be used when measuri 2) Press SEL key to switch to NCV function. current position, and over-range measurement is prohibited

ccording to the intensity of the detection signal. When the induced vi

5.10 NCV non-contact AC voltage detection

### is low, the screen displays- L, the green indicator lights up, and whe induced voltage is high, the screen displays- H, the red indicator lights

At the same time, the buzzer sounds different frequencies.

If the voltage of the open circuit is over 250V, if forbidden to measure the current on the circuit. ① Even if there is no indication, the voltage may still exist. Don't rely on NC detection to judge whether there is voltage on the wire.

The detection process may be affected by factors such as socket d (2) Press SEL key to switch to DC current mode

Defore use, please test on the known live conductor to ensure that the conductor is a second conductor to ensure that the conductor is a second conductor to ensure that the conductor is a second conductor to ensure that the conductor is a second conductor to ensure that the conductor is a second conductor to ensure that the conductor is a second conductor to ensure that the conductor is a second conductor to ensure that the conductor is a second conductor to ensure that the conductor is a second conductor to ensure that the conductor is a second conductor to ensure that the conductor is a second conductor to ensure that the conductor is a second conductor to ensure that the conductor is a second conductor to ensure that the conductor is a second conductor to ensure that the conductor is a second conductor to ensure that the conductor is a second conductor to ensure the conductor

|             |  | Power               | 2x1.5V AA bat |
|-------------|--|---------------------|---------------|
| position.   |  | Low battery         | LCD displays  |
| ve function |  | Working temperature | 0°C∼50°C      |

| oatteries) |  | maxin  |
|------------|--|--------|
|            |  | freque |

|   | Resolution | Accuracy                  |  | 600Ω  | 0.1Ω    |  |
|---|------------|---------------------------|--|-------|---------|--|
| ′ | 0.1mV      | ±(0.5% reading +5 digits) |  | 6kΩ   | 0.01ΚΩ  |  |
|   | 0.001V     | ±(0.5% reading +5 digits) |  | 60kΩ  | 0.01ΚΩ  |  |
|   | 0.01V      |                           |  | 600kΩ | 0.1ΚΩ   |  |
|   | 0.1V       | ±(0.8% reading +5 digits) |  | 6ΜΩ   | 0.001ΜΩ |  |
|   |            |                           |  |       |         |  |

terference sources of external environment (such as flashlight

uA position for measurement, and insert the red probe into the uA/m

## ange knob to the mA position for measurement, and insert the red

Input impedance: 10M/ maximum input voltage: 1000V

### (5) When the measured current is between 6000 uA and 600 mA, turn

| (4) Town the series has been been been been assisted  |  | Low battery         | LCD displays "⊾ |
|---|--|---------------------|-----------------|
| (1) Turn the range knob to the Live position. (2) Press SEL key to switch to the Live function. |  | Working temperature | 0°C∼50°C        |
| (3) A single red probe of the meter is inserted into the (Live) input end, the                  |  | Working humidity    | 0~85%RH         |
| black probe is pulled out, and the tip of the red probe is inserted into the power              |  | Working temperature | -20∼60°C        |

| •                         |  |
|---------------------------|--|
| mum input voltage: 750V   |  |
| ency response: 40Hz~1kHz. |  |
|                           |  |

Overload protection: 250V AC

mA range fuse (FF600mA/1000

mA range fuse (FF600mA/1000

| 2. Instruction manual       |  |
|-----------------------------|--|
| 3. Test probe               |  |
| 4. K-type temperature probe |  |
| 5 1 5x2 AA hattery          |  |

Before opening the battery cover to replace the batter

8. Battery replacemen

|  | 2. Instruction manual       |  |
|--|-----------------------------|--|
|  | 3. Test probe               |  |
|  | 4. K-type temperature probe |  |
|  | 5 1 5v2 AA battory          |  |

on the back of the instrumen

6 Replace with a new 1.5X2AA battery.

| 2. Instruction manual       | One    |
|-----------------------------|--------|
| 3. Test probe               | A pair |
| 4. K-type temperature probe | A pair |
| 5 1 5v2 AA battory          | Δ nair |

wrong reading, the battery should be replaced immediate

when the " xymbol appears on the instrument disp