



M430

DC Voltage Current Power Meter

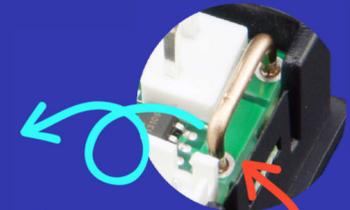
M430 is a voltage and current power meter. The displayed value can be fine-tuned through an adjustable resistance, but the actual voltage and current of the circuit under test will not be affected.

Do not use a power supply above 30V during use, otherwise it will cause damage.

The 10A range product comes with a shunt resistor, which can be used after connecting the meter in series with the load according to the wiring diagram.

According to different current ranges, it is divided into 10A, 50A, 100A, you are now viewing the 10A tutorial

10A



[中文介绍链接](#)
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技术参数 Technical parameter

Operating Voltage

The working voltage is DC 4~30V, it is recommended to use DC5~12V.

DC4~30V

Range

The voltage range is 0~100V, the display mode below 10V is 0.00V, the voltage starts at 0.2V, and the error is $\pm 1V$.

The current range is 0~10A, the current starts at 0.03A, and the error is $\pm 0.1A$

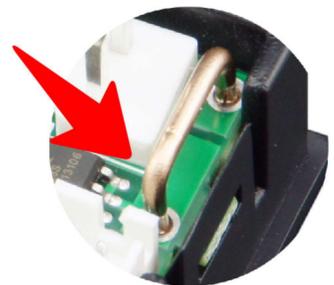
DC0.20V~9.99~10.0~100V ($\pm 1V$)

DC0.03A~9.99A ($\pm 0.1A$)

Shunt (manganese copper)

Integrated shunt resistance, short circuit alarm is normal in no-load test; it can be used according to the wiring diagram.

Shunt



Wire



XH-2.54-3P red, black and yellow wire (thin wire length: 155mm)

Thin red line: positive pole of the working power supply, cannot connect to a power supply above 30V

Thin black line: negative pole of working power supply,

Thin yellow wire: connect to the positive pole of the test loop power supply



VH-3.96-2P red and black wire (thick wire length: 165mm) current test wire

Thick red line: the positive pole of the current test, which is connected to the negative pole of the load

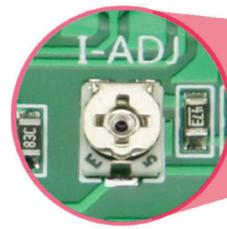
Thick black line: negative electrode of current test, connected to negative electrode of power supply



V-Adj (Voltage display adjustment)



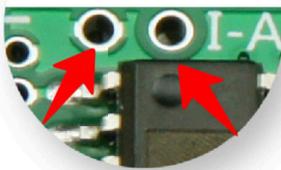
I-Adj (Current display adjustment)



No-load current does not return to zero

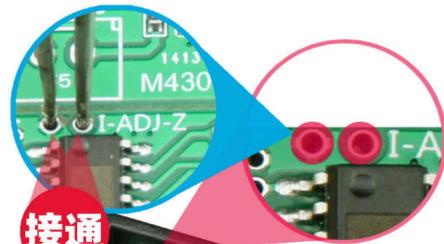
① Power -off

② Find the zero point



③ Short

接通



- ④The thin red and black wires are connected to the DC4~30V power supply, and the load remains off.
- ⑤The LED is on, disconnect the point where ③ is short.
- ⑥If it is unsuccessful, repeat operations ①~⑤



Display Power Measure temperature

Power and current will be displayed alternately, no need to set.

Temperature can be measured by connecting the separately sold NTC sensor.



NTC sensor (Sold separately)

NTC 10K 3950 1% sensor,
100cm long, with 2P terminal male, cylindrical waterproof probe!



02

接线方法
Wiring
method

Wiring legend



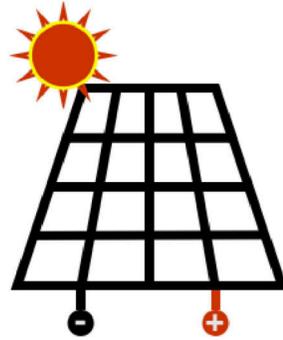


Meter power
DC4~30V

Test loop power
DC0~100V

Load

Power switch



Solar panel



Battery to be charged

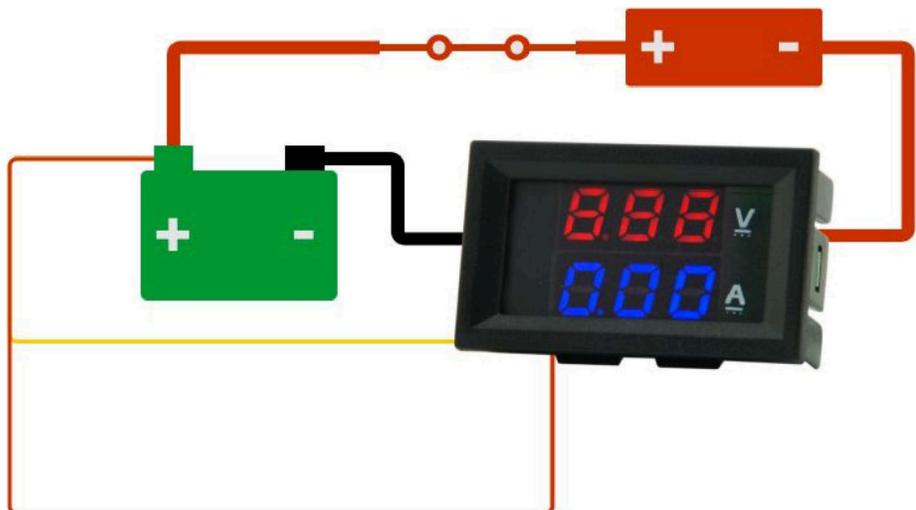
Basic operation: Check the meter

Wiring as shown below, the meter displays the voltage, the current is 000, the product is qualified



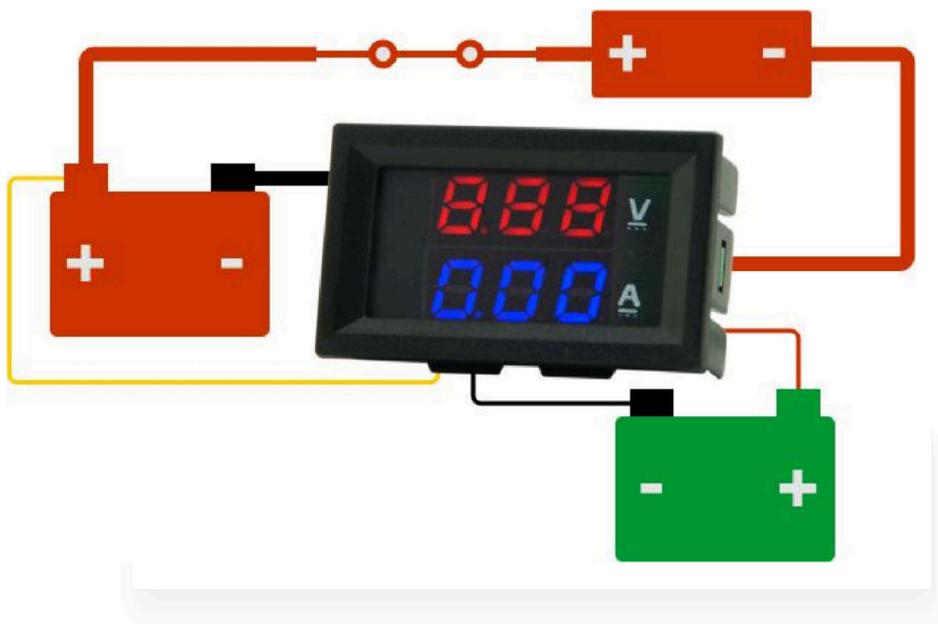
Common power supply Test 4~30V loop wiring

The thick red wire is connected to the negative pole of the load; the thin black wire is not connected to prevent short circuit.



Independent power supply to measure 0~100V loop

The thin red and thin black wires cannot exceed 30V.



Measure the wiring method of solar charging

