

## DROK 4-20mA Signal Generator (300479)

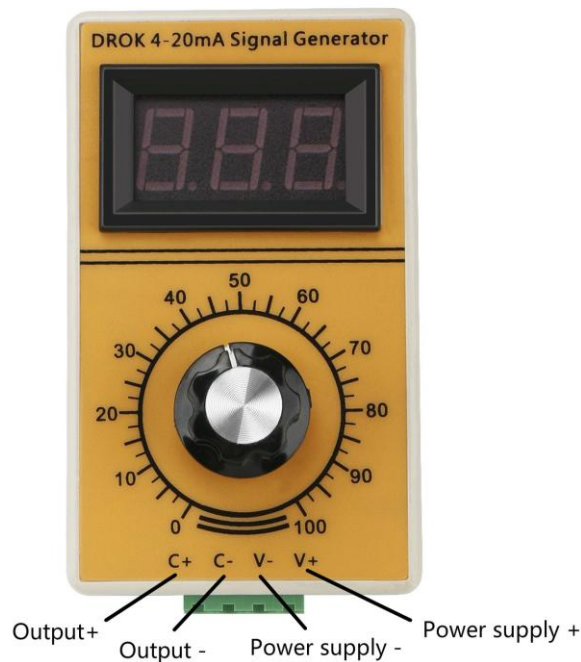
**Input voltage:** DC 5-28V(recommended range DC 12-24V)

**Output range:** 4-20mA current

**Protective Function:** This generator kit owns input voltage reversed connected protection. The product will not work when it is reversed connected, which effectively protect the product from burning.

**Wide application:** Our signal simulator can be used in various areas: signal generator, valve adjustment, frequency converter controlling, PLC testing, panel testing, LED testing, simulating the output of transmitter.

### Wiring:



### Output Impedance Matching of 4-20mA Current Generator:

The output source impedance should meet the following needs:

According to the formula:  $I=U/R$  (Current= Voltage/impedance), the voltage of your power supply divided by the signal impedance is the max. current that generated by the signal receiving terminal.

Besides, there is impedance with this current generator, so the formula should be the voltage of power supply / (the signal impedance of the device+ the impedance of the current generator)= output constant current

Since the voltage range of power supply of this product is 4-35V, if the practical voltage of the power supply is low and the impedance of the device is high, the product cannot

provide enough constant current.

Here are the signal matching demands of this product:

When the power supply is 24V, the signal impedance cannot be more than 1000ohm.

When the power supply is 12V, the signal impedance cannot be more than 500ohm.

When the power supply is 5V, the signal impedance cannot be more than 200ohm.

If the signal impedance is higher than the above parameters, you can increase the voltage of power supply or decrease the signal impedance to solve the current shortage of the constant current source. Please note that the voltage of the power supply cannot be higher than 28V.