Product Introduction

Using AD620 as the main amplifier, it can amplify microvolts and millivolts.The magnification is 1.5-1000 times, adjustable. High accuracy, low offset, more linearity it is good. Adjustable to zero, improve accuracy. It can be used to amplify AC and DC models. High precision, low offset, AC, DC microvolt, millivolt voltage amplifier,It can be used for AC and DC small signal amplification, microvolt and millivolt voltage amplification.(The use of the module requires a certain electronic foundation. If there is no basic customer, Please buy with caution)

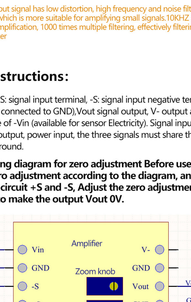
Product Highlights

1. Wide input range This product adopts AD620 amplification, which can amplify microvolts,Millivolt, which has higher magnification accuracy, better linearity, and maximum power than the LM358 on the market.Voltage output range ±5V.
2. Amplification The potentiometer is used to amplify the input signal, and the amplification is up to 1000 times,only need to pass a potentiometer to adjust.
3. Adjustable zero point Adjust the zero point through the zero-adjusting potentiometer to improve the accuracy. The phenomenon of zero drift appears to meet customer needs.
4. There is negative pressure output The module adopts 7660A negative pressure chip to output negative pressure (-Vin) , Can be provided to customers to drive other dual power loads.
5. Mini type, the size is 32*22mm, 4 pieces of 3mm are evenly distributed around The positioning holes are arranged at 2.54mm standard spacing on both sides.

Product parameter

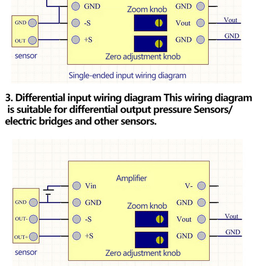
1. Input voltage: 3-11VDC. (Bulk can be customized)
2. Magnification: 1.5-1000 times adjustable, zero point adjustable
3. Signal input voltage: 100uV--300mV
4. Signal output range: ± (Vin-2V)
5. Negative pressure output: greater than -Vin. Due to the output internal resistance of the negative pressure chip,The actual output is greater than -Vin, the greater the load power, the greater the negative pressure drop.
6. Offset voltage: 50μV.
7. Input bias current: 1.0nA (maximum).
8. Common mode rejection ratio: 100dB
9. Offset voltage drift: 0.6μV/℃ (maximum).
10. Stable, time: 2μV/month max
11. Module weight: 4g
12. Size: 32*22mm

Dimensions



Product function diagram

If Vin=10V, the zoomable interval is about 10vV

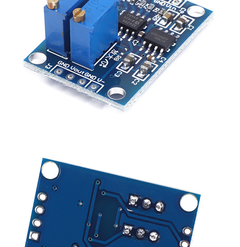


The output signal has low distortion, high frequency and noise filtering ability, which is more suitable for amplifying small signals.10KHZ small signal amplification, 1000 times multiple filtering, effectively filtering out clutter

Instructions:

Note: +S: signal input terminal, -S: signal input negative terminal (can be connected to GND),Vout signal output, V- output a voltage of -Vin (available for sensor Electricity). Signal input, signal output, power input, the three signals must share the same ground.

1. Wiring diagram for zero adjustment Before use, wire the zero adjustment according to the diagram, and short-circuit +S and -S, Adjust the zero adjustment knob to make the output Vout 0V.



Zero adjustment wiring diagram

2. Single-ended input wiring diagram This wiring diagram is suitable for single-ended output signals /Sensor/silicon photocell, etc.

Single-ended input wiring diagram

3. Differential input wiring diagram This wiring diagram is suitable for differential output pressure Sensors/ electric bridges and other sensors.

Differential input wiring