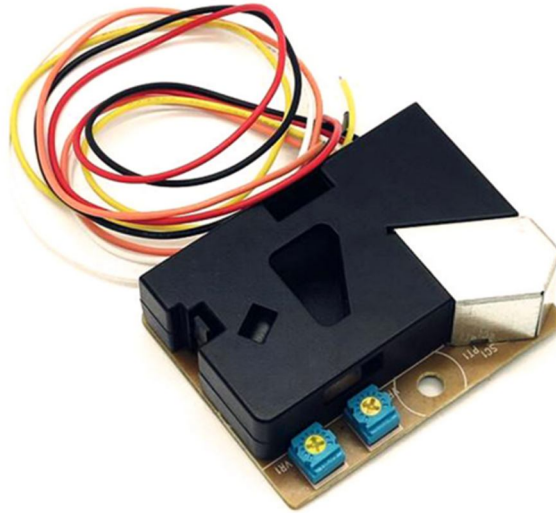


ARDUINO DUST SENSOR

Model: DSM501A PM2.5



Description:

DSM501 dust sensor can sense that tobacco smoke and pollen, house dust, such as heating automatic suction device, adjustable resistance is set up to detect the size of the dust. Using the same as the particle counter principle as the foundation, to detect the absolute number of particles per unit volume.

Features:

- PWM output
- Compact size and light weight.
- Easy installation
- Single power supply
- DSM501 dust sensor can sense that tobacco smoke and pollen, house dust, etc...
- More than 1 micron tiny particles.
- 5v input circuit, signal processing.
- Hidden within the airflow generator, able to attract the external atmosphere.
- Maintenance is simple and can keep the sensor characteristics for a long time.

Specifications:

- Working Voltage: DC 5.0±0.5 V
- Output Method: PWM
- Working Current(Max): 90mA
- Test Range: 15000 /283ml
- Smallest Particle Test Ability: 1µm
- Humidity Range: Storage Conditions 0-99% RH
Working Conditions 0-95% RH
- Temperature Range: Storage Conditions -20°C~ 80°C
Working Conditions -10°C~ 60°C
- Stability Time: 1 minute after power turned on

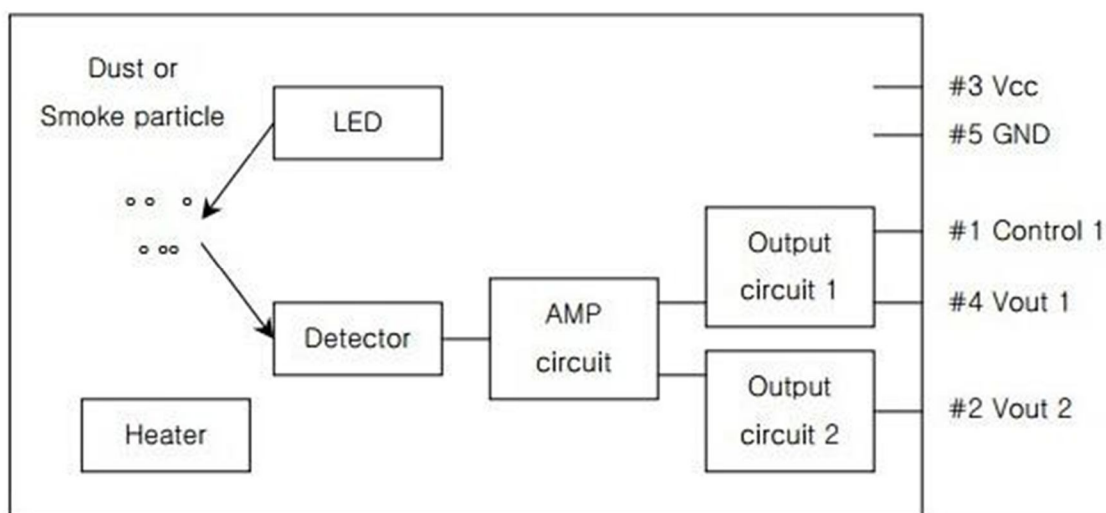
Constitute:

- Light-emitting diode (LED) light
- The detector
- Signal amplifier circuit
- Output driver circuit 1
- Output driver circuit 2
- The heating

Application:

- Air purifier or air purifiers.
- Air conditioning
- Air quality monitoring
- Breathing machine, etc...

Pin Definition:



Pin number	Pin name	Description
#1	Control 1	Vout 1 control
#2	Vout 2	Vout 2 output
#3	Vcc	Positive power supply
#4	Vout 1	Vout 1 output
#5	GND	Ground

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