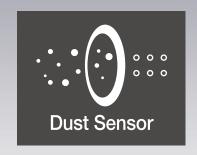
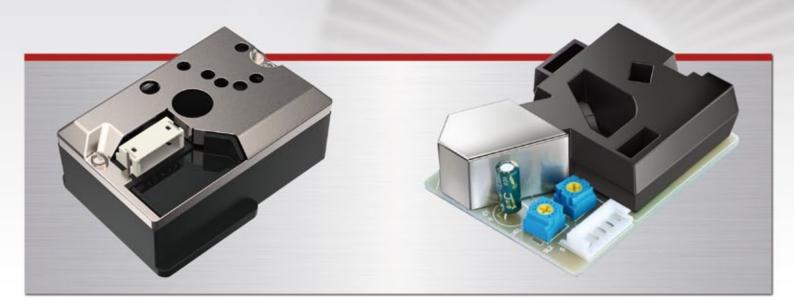


Dust Sensor

- Good consistency
- High accuracy







Dust Sensor

The dust sensor is a kind of photoelectric sensor, which detect the concentration of dust in the air by the reflection of light. It can effectively detect and monitor PM2.5 particles in the air, which is mainly applied in the equipment for environmental and air quality monitoring.

Weight Type Dust Sensor

DW0001 is a dust sensor composed of optical sensing system, including infrared luminous diode and receive diode, lens, shading case, shielding case, circuit. When the airflow with dust particles goes through the detection area exposed by infrared light, the forward scattering light is received by photoelectric receiving tube. After signal amplification, the voltage signal is outputted which is proportional to dust concentration.

Model	Voltage	Detectable Partical Diameter	Out Signal
DW0001-004	DC 5± 5%V	TYP 2.5 μm MIN 1.0 μm	Analog output
DW0002-000	DC 5± 0.1V	1.0∼10µ m	Digital Output (UART/PWM)

Counting Type Dust Sensor

DC0001-000 is an optical sensing system comprised of an infrared diode, an infrared receiver, a lens, a shielding cover and a circuit board. When the airflow with dust particles go through the detection area, the forward scattered light is collected by photoelectric receiver tube. After signal amplification and amplitude discriminating, the PWM pulse width signal is outputted. The subsequent receiving system calculates the dust concentration in the air according to the duty cycle of the PWM signal.

Model	Voltage	Detectable Partical Diameter	Detecting Concentration Range
DC0001-000	DC 5± 5%V	TYP 2.5 μ m MIN 0.5 μ m	0~8000pcs/283ml

Applications

- Environmental appliances
- Air purifier
- Air quality detector

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