

## **MPM30 Series**



## **Infrared PM Sensor**

The MPM30 series infrared PM sensor is a passive infrared PM sensor that uses the principle of infrared light scattering. Its light source is an infrared LED light source. The LED emits light and encounters dust to produce reflected light. The photosensitive detector detects the intensity of the reflected light. According to the pulse The size of the signal determines the concentration of dust. The MPM30 series infrared dust sensor adopts scientific structural design, superior dust compensation algorithm, and is extremely cost-effective.









Industrial testing





Smart home

Smart building







## **Features**

- Excellent stability and consistency
- Mini and lightweight, easy to integrate into end products
- Short response time

- Scientific dust compensation algorithm, high detection accuracy
- Small size, low power consumption
- High cost performance and wide application range

## **Product parameters**

Principle	Principle of infrared light scattering
Detect particle diameter	PM0.3~PM10
Detection concentration range	0~1000μg/m³
Detection accuracy (@25±2°C , 50%±10%RH)	±15ug/m³ (@0~100μg/m³) ±15% data (@100~1000μg/m³)
Power on stable time	≤ 10 s
Output method	UART/PWM
Working voltage	DC 5V $\pm$ 5%; Voltage ripple below 50mV
Working current	≤ 15mA
Working temperature	-20~75°C
Working humidity	0~95%RH(Non condensation)
Storage enviro ment	-40~85°C,0~95%RH(Non condensation)
Size	46*34*18.15mm (L×W×H)
Lifespan	≥ 8 years

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