

## **MPM11 series**



## Laser PM sensor

The MPM11 series laser PM sensor is based on the principle of laser scattering. Can accurately detect the concentration of suspended particles in the air from 0.3 µm to 10 µm. Scientific air duct design and dust compensation algorithm, high consistency and stability, multiple output forms, easy to integrate into end products.











Industrial testing







Smart home





## **Features**

- High consistency and stability
- Scientific dust-proof structure, low maintenance cost
- Low power consumption, small size, easy to integrate into end products
- All-metal shell shields electromagnetic interference and resists interference
- Efficient intelligent dust compensation algorithm, fast response speed and high detection accuracy

## **Product parameters**

Principle	Laser scattering
Detect particle diameter	0.3~10µm
Detection concentration range	$\leq 1000 \mu g/m^3$
Particulate matter concentration resolution	1µg/m³
Detect consistency errors (@ voltage 5.0V 25°C 50%RH)	±10%(@100~500μg/m <sup>3</sup> ); ±10μg/m <sup>3</sup> (@ 0~100μg/m <sup>3</sup> )
Output method	UART / IIC / PWM
Data interface level	L<0.8@3.3V H>2.7@3.3V
Working voltage	4.5~5.5V, Average voltage: 5V
Working current	≤ 85mA
Stand-by current	≪ 45μA
Working temperature	-10~60°C
Working humidity	0~99% (no condensation)
Size	47*36.8*11.8mm

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