

## Product Information

The SM-PWM-01A series product is a dust sensor that can measure air quality by detecting dust over 1 $\mu$ m in the surrounding environment.

As the world's first digital microcomputer type sensor, it has been used in the market for more than 15 years in the optimal global air purifier and is a long-selling product whose durability and performance have been verified.

It has the advantage of mass production at low cost.



### Electrical Characteristic

characteristic	Rating
Detectable particle size	approx. 1 $\mu$ m (minimum.)
Detectable range	800,000 PCS/ft <sup>3</sup>
Supply voltage	DC 5 $\pm$ 10%, Ripple <100mV at 60HZ
Current Consumption	< 100 +5% mA
Operating Temp./Humidity	(P1,P2) Hi : > 4.5V, Lo : <0.7V, Negative Logic Pulse output
Operating Temp. Range	-10~45 $^{\circ}$ C
Operating Humi. Range	95%RH or less (without dew condensation)
Storage temperature	-30~60 $^{\circ}$ C
Power up time	60 Sec
Dimensions	59(W)x H46(T)x D18(D) mm
weight	23g

### Absolute Maximum Ratings

characteristic	Rating
Supply voltage	-0.3 to + 7.0
Operating temperature	-10 to 60
Storage temperature	-30 to 80

### Connector Pin Configuration

Connector : JST S5-EH

1. COMMON (GND)
2. Output (P2)
3. Input (5V DC / 100mA)
4. Output (P1)
5. No Connection

### Application Ideas

- ✓ Air Purifier
- ✓ Air Quality Monitor
- ✓ Air Conditioner
- ✓ Ventilator
- ✓ Smoke type Fire alarm applicator  
by different sensor adjustments  
(customer option)

### Product Inquiry

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