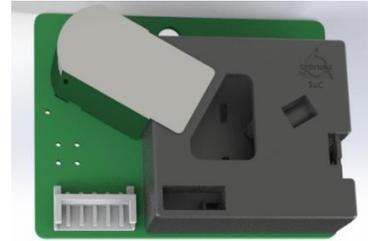


GPSM series

*Accurate PM2.5 sensor
at a Reasonable Cost*

Key Feature

- Detectable Particle Size: **$\geq 0.3 \mu\text{m}$**
- Ideal for accurate **PM2.5 μg display**
- **Detailed Segment** Level Control
- Enhanced **Uniformity**
- Easily **replaceable** to existing sensors



GPSM Series is a **PM2.5 dedicated sensor**, in which **SAMYOUNG S&C's** 20years knowledge and technology on Particle Sensor are embedded. With a radical improvement for **detection capability of fine particle** as small as $0.3\mu\text{m}$, the sensor converts actual count of fine particles and provide more accurate PM2.5 weight concentration values for display and also enable higher precision control at more segmented levels than conventional sensors.

Mass calibration and production technology at **SAMYOUNG S&C** makes **GPSM** series **cost effective** and **price competitive**. **GPSM** also shares legacy form factors of the most widely used sensors for **easy design change and replacement**.

Specifications

- Detectable size : $0.3\mu\text{m} - 5.0 \mu\text{m}$
- Signal Out put : PWM, UART
- Effective Range : $0 \sim 500\mu\text{g}/\text{m}^3$
- Accuracy : $\pm 25\% @ 100 \sim 500\mu\text{g}/\text{m}^3$
 $\pm 25 \mu\text{g} @ 10 - 100 \mu\text{g}$
- Sampling Interval : 1 sec
- Operation temp : $-10 \sim 65^\circ\text{C}$
- Current Consumption: $< 85\text{mA}$
- Dimensions : $60 \times 45 \times 18\text{mm}$ (WxHxD)
- Weight : 25g

Applications

- Air Purifier, Air Conditioner and various Air Products
- IAQ monitoring device, IoT Devices
- Ventilation system

DSM series

PM 10 / ePM 2.5
Range: $0 \sim 500 \mu\text{g}$
 $\pm 30\%$ w/ variable resistor
Low Cost Legacy Product

LDSM series

Automotive Qualification
PM 10 / ePM 2.5
Range: $0 \sim 500 \mu\text{g}$
 $\pm 25\%$ Factory Calibration

SPSM series

Fan driven Airflow
PM 1.0 / PM 2.5 / PM 10
Industrial / Ambient / IAQ
 $\pm 15\%$ Factory Calibration