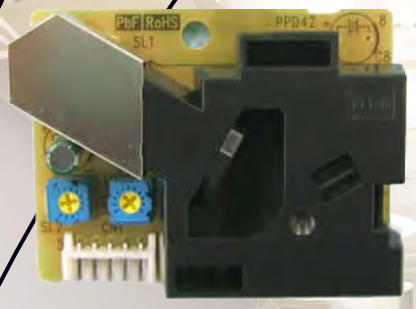
KANOMAX
The Ultimate Measurements

Particle Sensor Units

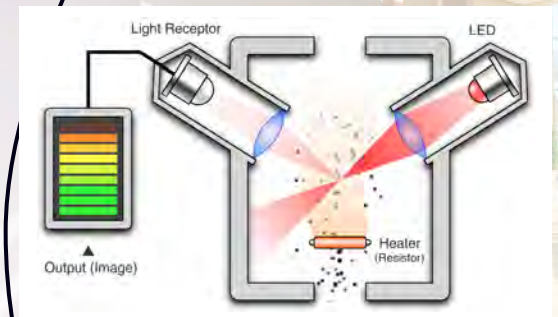
Designed for easy OEM integration

Based on the light scattering method, it always detects airborne particles. Pulse output that corresponds to concentration per unit volume of particles can be obtained, with using an original detection method based on light scattered principle similar to the particle counter.

PPD 60PV



PPD 42NJ



Unique air sampling method using "heater" to generate updraft, preventing choked flow. Suction pump is not necessary.

Applications

Designed for easy OEM integration:

- Air Purifier
- Air Quality Monitor
- Air Conditioner
- Ventilation
- Vaccuum Cleaner

Features & Benefits

- Stable and sensitive detection of not only cigarette smoke but house dust which are indoor asthma triggers.
- Air is self-aspirated with the current of air generation mechanism with a built-in heater.
- Easy maintenance. High sensitivity lasts long term.
- Dual output for particle sizes over 1 micron and 2.5 microns. (Model PPD 42NJ)
- Easily detects particles larger than 0.5 microns. (Model PPD 60PV)
- Compact, light, and easy to integrate into your original equipment.

Particle Sensor Models PPD42NJ & PPD60PV Specifications

Model No.	PPD42NJ	PPD60PV
Detectable Particle Size	Approx. 1 µm & larger	Approx. 0.5 µm & larger
Supply Voltage	5VDC	
Operating Temperature	0 to 45°C	
Operating Humidity	95% RH or less (no condensation)	
Output Method	Digital	Digital or Analog
Dimensions	59x45x22 mm	88x60x20 mm
Weight	24 g	36 g

Specifications are subject to change without notice

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Particle Sensors

Large Particle & PM Sensors

Large Particle Sensor is the sensor for industrial applications to detect particles sized over 10 micron. This sensor is used in production lines that dislike large particles.

"PM2.5" is known as the fine particle which is one of the cause of asthma or respiratory disease, etc. Especially, diesel soot commonly referred to as PM2.5 is suspected to raise the risk of lung cancer. Our sensor has high correlation with Federal Equivalent Method (FEM) and achieves low cost and simple installation for multipoint time-series monitoring.

Applications

- Particle Monitoring in Industrial Processes
- Ambient PM 2.5 Monitoring

Features & Benefits

- High correlation with Federal Equivalent Method (FEM) - With the many years of technical development for light scattering method, our sensor achieves high correlation with Federal Equivalent Method (FEM).
- Built-in Suction Fan - Fan enables constant and larger sampling of air.
- Built-in Heater prevents dew - Optical unit and circuit are fully covered with plastic case, and built-in heater keeps the sensor away from dew.
- Compact, Light and Low Cost
- Detection of Larger Particles - This sensor detects comparatively larger sized particles, over approx. 10micron and larger.
- Perfect for production lines that monitor for large particles such as painting process and food processing line and so on.

Specifications

Model No.	PM Sensor	Large Particle Sensor
Detectable Particle Size	approx. 0.3µm & larger concentration range equiv. PM2.5 (0-200 µg/m3)	approx. 15µm and larger
Supply Voltage	12VDC	
Operating Temperature	-10 to 45°C	
Operating Humidity	20 to 80% RH (no condensation)	
Dimensions	71.4 x 76.4 x 36.7 mm	
Weight	130 g	120 g

Specifications are subject to change without notice