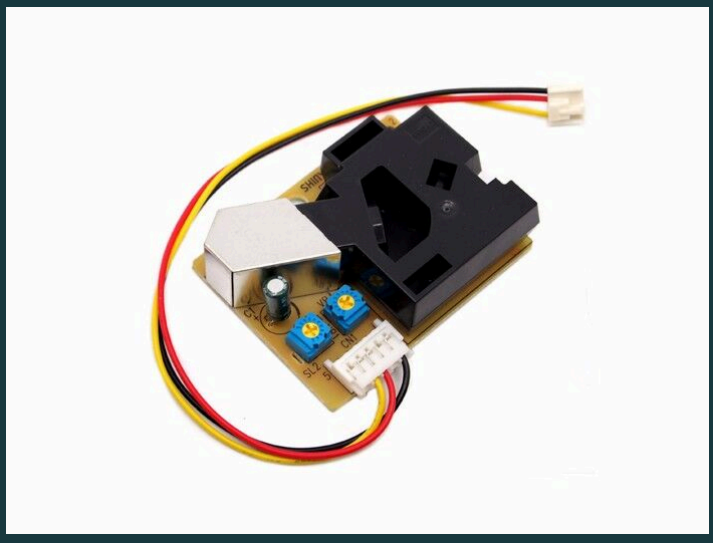
seeed studio

INDUSTRIAL PRODUCT DATASHEET

Grove - Dust Sensor(PPD42NS) - measuring PM 2.5,dual PWM output

Grove - Dust Sensor(PPD42NS) measures PM2.5 with dual PWM output for particle sizes over 1 micron and 2.5 microns (approx.), suitable for air purifiers, air quality monitors, air conditioners, and ventilators.

SKU	UPDATED	PRICE
101020012	2026-11-03 03:50:46	$10.90(Excl. VAT)



Overview



The Grove - Dust Sensor(PPD42NS) detects indoor dust and cigarette smoke with stable, sensitive dual PWM output for particle sizes over 1 micron and 2.5 microns (approx.). It features a compact, light, self-priming design with a built-in heater and Grove port compatibility for plug-and-play use in air purifiers, air quality monitors, air conditioners, and ventilators.

Key Features

01 **Wide measurement range**

Not only cigarette smoke, but also indoor dust, an asthma trigger, can be detected.

02 **Stable and sensitive measurements**

Dual PWM output for particle sizes over 1 micron and 2.5 microns (approx.)

03 **Long-term use**

Air is self-priming through the current of the air generating mechanism with built-in heater, easy to maintain

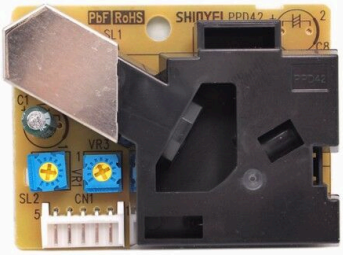
04 **Compact and light design**

Compact size makes installation easier

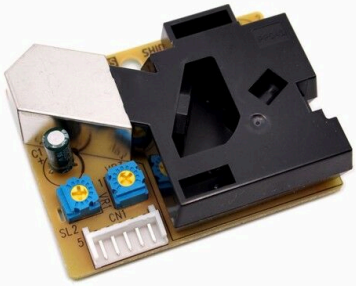
05 **Easy to use**

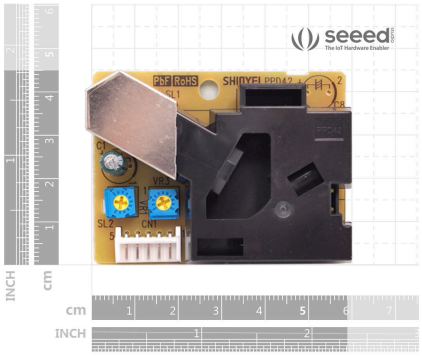
Compatible with Grove port, just plug-and-play

Product Gallery









Applications

- Air Purifier
- Air Quality Monitor
- Air Conditioner
- Ventilator

Resource Links

- https://www.seeedstudio.com/Grove-Dust-Sensor-PPD42NS.html
- Grove-Dust_sensor datasheet
- De-construction of the Shinyei PPD42NS dust sensor Made by Tracy Allen
- Building a low-cost networked PM2.5 monitor
- Measuring the Pickle Jr. – a modified PPD42 with an attached fan.
- Testing the Shinyei PPD42NS
- Air Quality Monitoring

Seeed Technology Co.,Ltd.
9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

Tel: +86 0755-80695676
Web: www.seeed.cc
Shop: www.seeedstudio.com