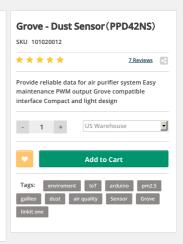
Fusion PCB/PCBA

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Home / Grove / Sensors / Environment / Grove - Dust Sensor (PPD42NS)





Description Documents Learn Reviews FAQS

This Dust Sensor gives a good indication of the air quality in an environment by measuring the $% \left(1\right) =\left(1\right) \left(1\right)$ dust concentration. The Particulate Matter level (PM level) in the air is measured by counting the Low Pulse Occupancy time (LPO time) in given time unit. LPO time is proportional to PM concentration. This sensor can provide reliable data for air purifier systems; it is responsive to PM of diameter 1µm.

For all Grove users (especially beginners), we provide you guidance PDF documents. Please download and read through <u>Preface - Getting Started</u> and <u>Introduction to Grove</u> before your using of the product.

This sensor uses counting method to measure dust concentration, not weighing method, and the unit is pcs/L or pcs/0.01cf.

Please pay attention to the warnings listed here.

Features

- Grove compatible interface(extra wire with connecter)
- Supply voltage range: 5V
- Minimum detect particle: 1um
- PWM output
- Dimensions: 59(W)x45(H)x22(D) [mm]

Application Ideas

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

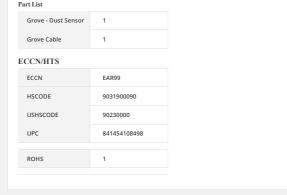
Platform Supported

Arduino	Wio	BeagleBone	Raspberry Pi	LinkIt ONE
⊝ ⊙			(6)	

Technical details

Dimensions

Dimensions	59mm x45mm x22mm	
Weight	G.W 28g	
Battery	Exclude	
VCC	4.75~5.75V	
Standby Current Supply	90mA	
Detectable range of	0~28,000 / 0 ~ 8000	
concentration	pcs/liter / pcs/0.01cf	
Operating Temperature Range	0~45 °C	
Output Method	Negative Logic, Digital output, High: over 4.0V(Rev.2), Low: under 0.7V	
Detecting the particle diameter	>1µm	
Dimensions	59(W) × 45(H) × 22(D) mm	
Humidity Range	95% rh or less	



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