



Grove - Dust Sensor(PPD42NS)

SKU 101020012



7 Reviews

Provide reliable data for air purifier system Easy maintenance PWM output Grove compatible interface Compact and light design

- 1 +

US Warehouse



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Sensor

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Description

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FAQS

This Dust Sensor gives a good indication of the air quality in an environment by measuring the 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 [Preface - Getting Started](#) and [Introduction to Grove](#) before your using of the product.

Note

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 connector)
- 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

Technical details

Dimensions	59mm x45mm x22mm
Weight	G.W 28g
Battery	Exclude
VCC	4.75~5.75V
Standby Current Supply	90mA
Detectable range of concentration	0~28,000 / 0 ~ 8000 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

Part List

Grove - Dust Sensor	1
Grove Cable	1

ECCN/HTS

ECCN	EAR99
HSCODE	9031900090
USHSCODE	90230000
UPC	841454108498

ROHS	1
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