

Laser dust sensor

**(With adapter cable, connected directly
to the computer USB port)**



Company address: guangzhou city, guangdong province town of huadu district xinhua 27 public avenue

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QQ: 956183509

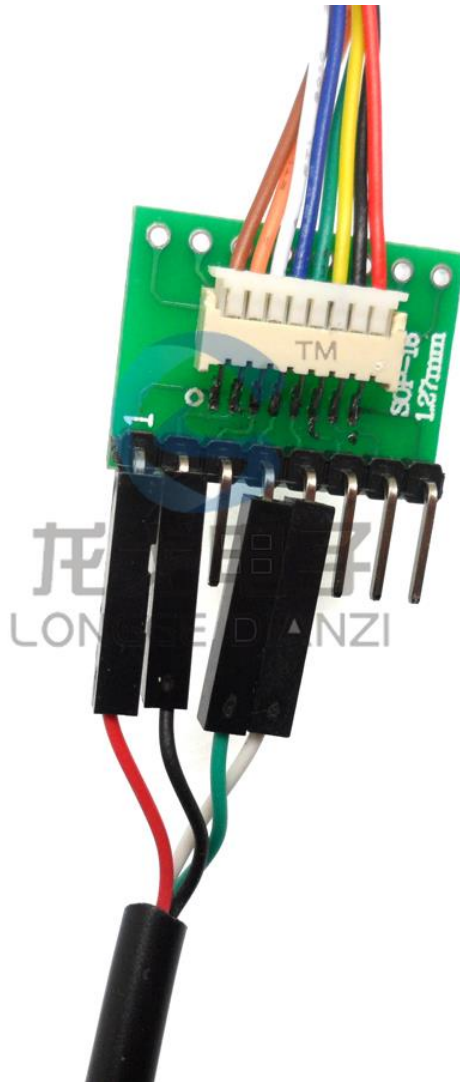
E-mail: logoele@163.com

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Laser dust sensor

PM1.0 PM2.5 PM10



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Digital pins interface definition

PIN1	VCC	VCC 5V
PIN2	GND	GND
PIN3	SET	Set the pin /TTL level@3.3V
PIN4	RXD	RXD /TTL level@3.3V
PIN5	TXD	TXD /TTL level@3.3V
PIN6	RESET	RESET /TTL level@3.3V
PIN7\8	NC	NC

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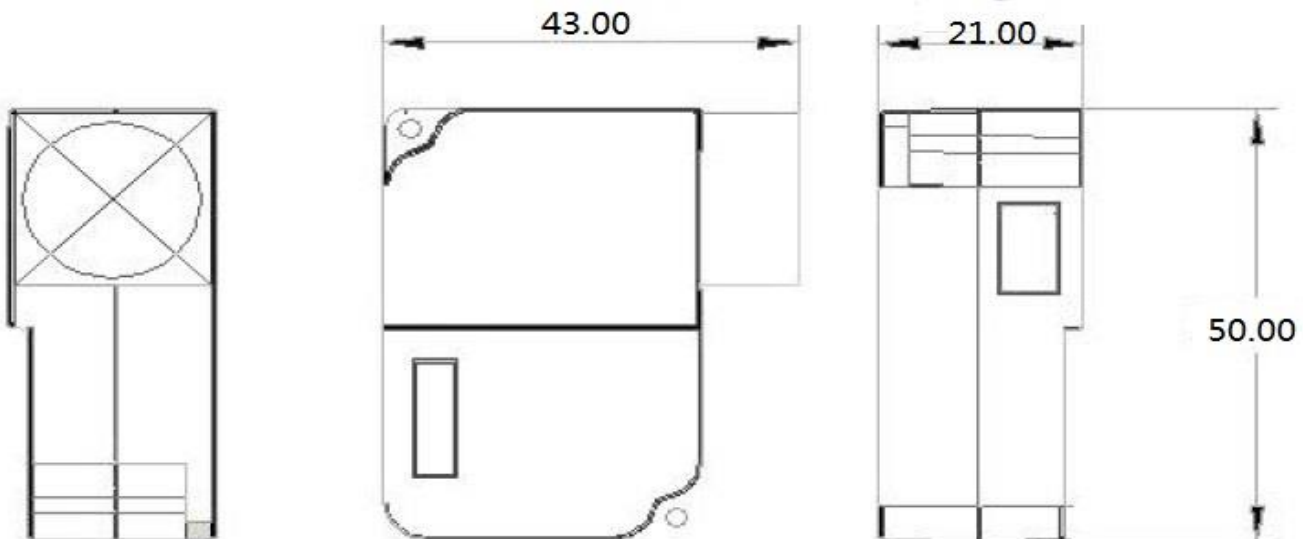
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Product name: high accuracy laser type PM1.0 PM 2.5 PM10 Dust Sensor module

Description: PMS3003 Using laser light scattering principle to get air 0.3 ~ 10 Micron particulate concentration, stable and reliable data;

Built-in fan, digital output, high integration;

Features

Data is accurate: laser testing, stability, consistency;

Quick response: scene change response time is less than 10 Seconds;

Ease of integration: serial output (or IO Output port can be customized), comes with A fan;

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High resolution: resolution smallest particle diameter 0.3 Micron;

Scope of application:

PM1.0 PM2.5 PM10 Detectors, cleaners

Working principle

Using laser light scattering principle: when the laser light to detect the location of Particles will produce a faint light Scattering, the scattering of light in particular directions of wave and particle diameters, Through the different particle size of waveform classification system Taking into account the conversion formula you can get different sizes of particles in real time Concentration, in accordance with the calibration method

Official unit of concentration;

Technical parameters:

1 Measurement diameters: 0.3-1.0um 1.0-2.5um 2.5-10um

2 Measurement units: ug/m³

3 Measurement accuracy: ug/m³

4 Response time: <10s

5 Work current: 5V200ma@ Work State 5V2ma@ Standby Fitness

6 Data interface: serial (3.3VTTL Level)

7 Module dimensions: 65x42x23mm

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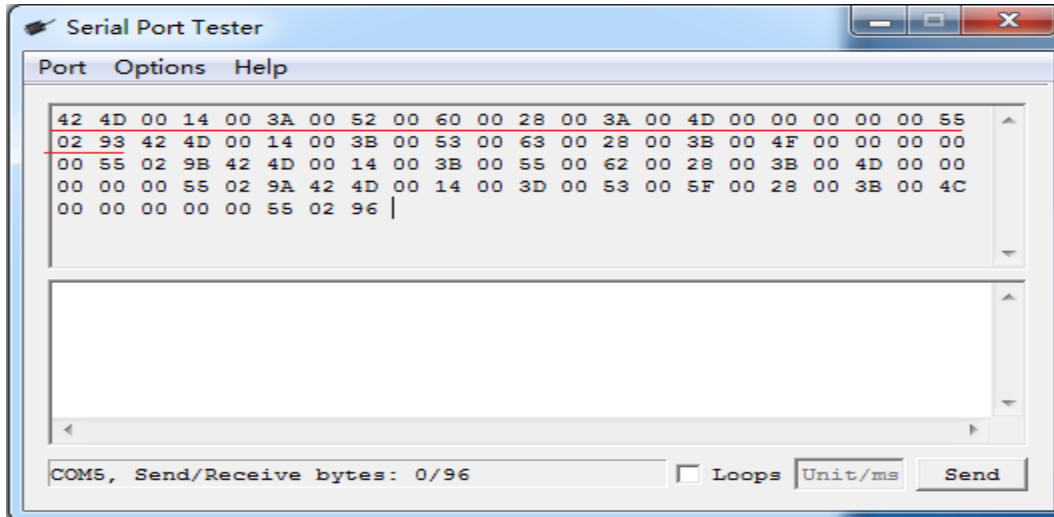
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Laser dust serial data display:



Start character 1	0x42 (Fixed)	
Start character 2	0x4d (Fixed)	
Frame length upper eight bits	.....	Frame length = 2×9+2 (Data + check digit)
Frame length lower eight bits	.....
Data 1 upper eight bits	.....	Data 1 represents PM1.0 concentration (CF=1, standard particulate matter) Units ug / m ³
Data 1 lower eight bits	.....
Data 2 upper eight bits	.....	Data 2 represents PM2.5 concentration (CF=1, standard particulate matter) Units ug / m ³
Data 2 lower eight bits	.....
Data 3 upper eight bits	.....	Data 3 represents PM10 concentration (CF=1, standard particulate matter) Units ug / m ³
Data 3 lower eight bits	.....
Data 4 upper eight bits	.....	Data 4 represents PM1.0 concentration (Atmospheric Environment) Units ug / m ³
Data 4 lower eight bits	.....
Data 5 upper eight bits	.....	Data 5 represents PM2.5 concentration (Atmospheric Environment) Units ug / m ³
Data 5 lower eight bits	.....
Data 6 upper eight bits	.....	Data 6 represents PM10 concentration (Atmospheric Environment) Units ug / m ³
Data 6 lower eight bits	.....
Data 7 upper eight bits	.....	Data 7 (Retention)
Data 7 lower eight bits	.....
Data 8 upper eight bits	.....	Data 8 (Retention)
Data 8 lower eight bits	.....
Data 9 upper eight bits	.....	Data 9 (Retention)
Data 9 lower eight bits	.....
Data and check upper eight bits	.....	Checksum = Start character 1+ start character 2 + + data 9 lower eight bits
Data and check lower eight bits	.....



Data 1.2.3 Read the to value is a TSI For standard data.

Data 4.5.6 Reading to the value of value is an atmosphere as the standard.

TSI Profile

TSI As a leader in the design and production of precision measuring instruments, TSI Collaborative research institutes as well as customers around the world for many disciplines of measuring instruments Development of standards, including: atmospheric sciences, airflow, fluid dynamics, indoor air quality, and bio-hazardous. Located in United States territory's corporate headquarters And local offices throughout Europe and Asia makes TSI Every corner of the world. Every day, our dedicated staff in turning research into reality.

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