

Laser dust sensor

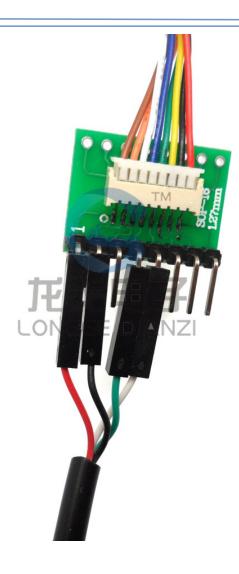
(With adapter cable, connected directly to the computer USB port)



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Digital pins interface definition

PIN1	VCC	电源正 5V
PIN2	GND	电源负
PIN3	SET	设置管脚 /TTL 电平@3.3V
PIN4	RXD	串口接收管脚 /TTL 电平@3.3V
PIN5	TXD	串口发送管脚 /TTL 电平@3.3V
PIN6	RESET	模块复位信号 /TTL 电平@3.3V
PIN7\8	NC	悬空

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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 $0.3 \sim 10$ 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;

High resolution: resolution smallest particle diameter 0.3 Micron;

Scope of application:

PM1.0 PM2.5 PM10 Detectors, cleaners;

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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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Ltd

GuangZhou LOGOELE Electronic Technology Co.,

Laser dust serial data display:



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起始符1	0x42	(固定)
起始符 2	0x4d	(固定)
帧长度高八位		帧长度=2x9+2(数据+校验位)
帧长度低八位		
数据1高八位		数据 1 表示 PM1.0 浓度 (CF=1,标准颗粒物)
数据1低八位		单位 ug/m3
数据 2 高八位		数据 2 表示 PM2.5 浓度 (CF=1,标准颗粒物)
数据 2 低八位		单位 ug/m3
数据3高八位		数据 3 表示 PM10 浓度 (CF=1,标准颗粒物)
数据 3 低八位		单位 ug/m3
数据 4 高八位		数据 4 表示 PM1.0 浓度 (大气环境下)
数据 4 低八位		单位 ug/m3
数据5高八位		数据 5 表示 PM2.5 浓度 (大气环境下)
数据5低八位		单位 ug/m3
数据 6 高八位		数据 6 表示 PM10 浓度 (大气环境下)
数据6低八位		单位 ug/m3
数据7高八位		数据7(保留)
数据7低八位	······	
数据8高八位		数据8(保留)
数据8低八位		
数据 9 高八位		数据9(保留)
数据9低八位		
数据和校验高八位		校验码=起始符 1+起始符 2++数据 9 低八位
数据和校验低八位		

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.

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TSI Profile

TSI As a leader in the design and production of precision measuring instruments, TSI Collaborative researchinstitutes 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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