

G03-PM2.5

Real-time PM2.5 Monitor

- *Experienced in designing IAQ product for 12 years, long term exportation to Europe and America, powerful performance guaranteed*
- *Real-time detecting indoor PM2.5/PM10, Temperature and relative humidity*
- *Provide Modbus RS485 optional*
- *Six color of LCD backlight colors, corresponding to the China standard of PM2.5 six levels, very intuitive and clear*
- *Wall mounting, or desktop optional*
- *Suitable for residences, offices, small ventilation systems, and etc.*



Features

- Built in laser dust sensor. Real time monitor indoor PM2.5 concentration.
- Built in high accuracy temperature & RH sensor, monitor indoor air temperature & RH.
- Using our unique technology of compensating method, and up to nine calibration points, to guarantee G03-PM2.5 measurements accuracy in different environments.
- LCD displays the real time measurement and moving average value of PM2 within one hour, as well as real time temperature and RH measurements.
- Special design six colors backlit LCD for six levels of PM2.5 according to the state standard, intuitive and clear.
- Manual or automatically control air cleaning facility according to PM2.5 changes
- long-term security power supply: 5VDC with a power adaptor; direct connection 220 VAC mains
- Option: RS485 interface with Modbus protocol for real time measurements transfer
- User can have a clear intuitive perception of PM2.5 concentrations in the environment, for convenient and reasonable choice in air purification equipment, evaluation of purification effect
- Provide the carbon dioxide, TVOC monitor, applied to the system with fresh air

Main Applications

- Residential, office and other places of civilian applications
- Residential projects
- Mini-type ventilation system

Models Guide

Model	PM2.5	Temp/RH	5VDC Power Supply	24VDC Power Supply	Output
G03-PM2.5-300H	●	●	●		NONE
G03-PM2.5-340H	●	●		●	RS485 (Modbus RTU)

Specifications

General Data	
Power supply	G03-PM2.5-300H: 5VDC with a power adaptor witch connection 220 G03-PM2.5-340H: 24VDC
Work consumption	1.2W
Warm-up time	60s
Monitor parameters	PM2.5, air temperature & RH
LCD display	LCD six backlit, displays six levels of PM2.5 and one hour average value. Green: Top Quality- Grade I Yellow: Good Quality-Grade II Orange: mild level pollution -Grade III Red: medium level pollution Grade IV Purple: seriously level pollution Grade V Maroon: severe pollution - Grade VI
Modbus RS485 interface	19200bps, 15KV _a antistatic protective
Storage condition	0°C~60°C/ 5~95%RH
Dimensions	85mm×130mm×36.5mm
Housing materials	PC+ABS materials
Net weight	198g
IP class	IP30
PM2.5 Data	
Built-in sensor	Laser particle sensor, light scattering method
Measuring range	0~600μg/m ³
Display resolution	0.1μg/m ³
Zero Point Stability	±5μg/m ³

Measuring accuracy (1h average)	±15% @ 25°C, 10%~50%RH	
Temperature and Humidity Parameters		
Temperature humidity sensor	Built-in high precision digital integrated temperature humidity sensor	
Temperature measuring range	-20°C~50°C	
Relative humidity measuring range	0~100%RH	
Display resolution	Temperature:0.01°C	Humidity:0.01%RH
Accuracy	Temperature:<±0.5 °C@30°C	Humidity:<±3.0%RH (20%~80
Stability	Temperature:<0.04°C per year	Humidity:<0.5%RH per year

Air quality index of PM2.5 levels

Air Quality Levels			PM2.5 24h Average Concentration	Effects on Health
LCD Backlight	PM2.5 Level	Air Type	µg/m ³	
Green	Level I	Very good	0-35	Good air quality, almost no air pollution
Yellow	Level II	Good	36-75	Acceptable air quality, but some pollutants may has a weak effect on health of a handful of high sensitive people.
Orange	Level III	Light pollution	76-115	The symptom of susceptible people are mild sharpened and healthy people come on an symptom of irritation.
Red	Level IV	medium pollution	116-150	Further aggravate symptoms of vulnerable groups, it may has an impact on healthy people heart, lungs and respiratory system.
Purple	Level V	heavy pollution	151-250	Symptoms of vulnerable groups are further aggravated. Healthy people generally appear symptoms
Red-brown	Level VI	Serious pollution	>251	The exercise tolerance of healthy people is reduced with noticeable symptoms, and some symptoms appear ahead of time.

Different indoor air detectors for different applications

For different indoor pollution and room purposes, you may need different air quality monitor. Please contact us to know details.

- CO2 monitor/controller
- Carbon monoxide and ozone monitors/controllers
- IAQ monitors with up to 6 parameters detection

More information please contact with our sales.