

# 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 220V 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 <sub>a</sub> antistatic protective
Storage condition	0℃~60℃/ 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 <sup>3</sup>
Display resolution	0.1μg/m <sup>3</sup>
Zero Point Stability	±5μg/m <sup>3</sup>

Measuring accuracy（1h average）	±15% @ 25℃，10%~50%RH	
Temperature and Humidity Parameters		
Temperature humidity sensor	Built-in high precision digital integrated temperature humidity sensor	
Temperature measuring range	-20℃~50℃	
Relative humidity measuring range	0~100%RH	
Display resolution	Temperature:0.01℃	Humidity:0.01%RH
Accuracy	Temperature:<±0.5℃@30℃	Humidity:<±3.0%RH（20%~80
Stability	Temperature:<0.04℃ 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/m³	
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.