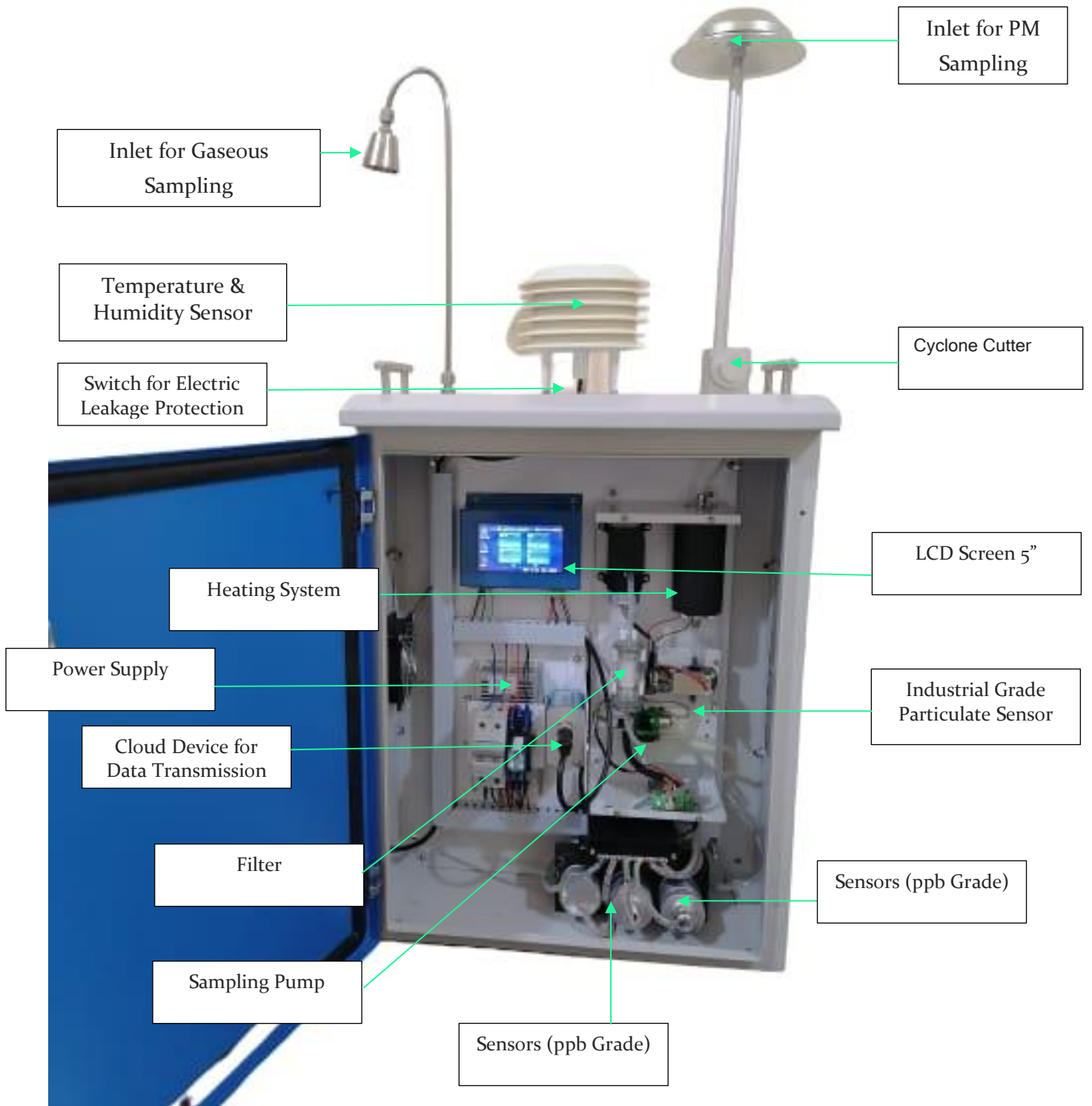


**NEW GENERATION  
AIR QUALITY  
MONITORING SYSTEM**





International standard Aluminium back beam; with anchor ear so it is convenient for wall mounting and pole installation; reliable and stable installation method; combined vertical bar (easy to pack and shipping).

### Sufficient Material/Solid Structure

- 2.0 mm Industrial Grade carbon steel with powder coating
- Pickling and rust-proof treatment
- Anti-corrode, not afraid of acid rain/oil/stains
- Bright/clean surface
- No rust
- No pulverization
- IP55 grade dustproof and waterproof design
- Main body adopts seamless welding/solid structure
- Two sides dust cover (ventilation, heat dissipation, dustproof, waterproof).



Transmission Module

Power Supply Module

PM Acquisition Module

Gas Monitoring Module

PM Monitoring Module

T/RH Monitoring Module

Display Module



### Large screen display Data intuitive

- High-definition display
- 5.0 inch
- 800\*480 resolution
- Backlight life > 20000h
- Working temperature: -20°C - 70°C
- Touch Number: 800,000 times

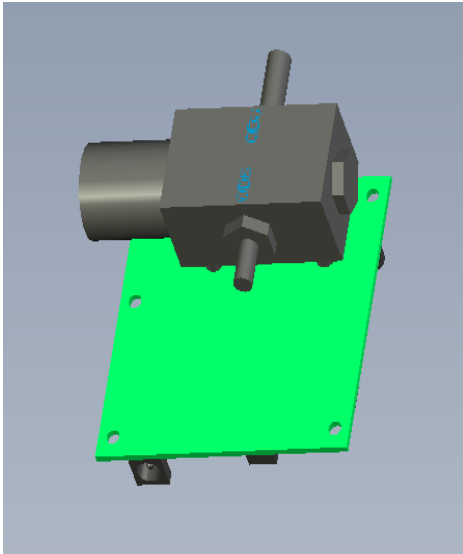


**Sampling Probe:** The cutters are made of high quality hard aluminum alloy 6061 through sand blasting and oxidation treatment, with good corrosion resistance and smooth surface roughness. Convenient and quick disassembly and assembly structure, convenient for users to clean the catch plate.

Weight	About 1kg
Dimension	230mm* φ 45mm
Sampling system matching requirements	Sampling Flow 1.3L/Min ± 0.15
Cut Size	PM2.5, PM10
Interface Size	Φ 6 Flexible Hose



**Gaseous Sampling Inlet:** The line connected with sampling pump, maintaining required flow for gaseous sampling.



## DUST SENSOR

PM parameter	Technical Index
Detecting Range	PM2.5 (0-2000) ug/m <sup>3</sup> PM10(0-2000)ug/m <sup>3</sup>
Sampling Flow	1.3L/min, precision ±0.15
Sampling Time	Adjustable/5min
Partical Size	PM2.5, PM10, TSP
LOD	2 ug/m <sup>3</sup>
Resolution	1 ug/m <sup>3</sup>
Dehumidification Method	Air intake dynamic heating dehumidification system heating time can be set, PID adjustment method, with humidity detection, can reduce energy consumption



## T/RH DETECTION

Industrial Grade Temperature/Humidity sensor  
 Humidity Error 3%  
 Humidity 0.5°C  
 3.2uW power consumption  
 Temperature Range : -40 - 70°C  
 Humidity Range : 0-95%RH  
 Using RS485 industrial communication interface, stable and reliable



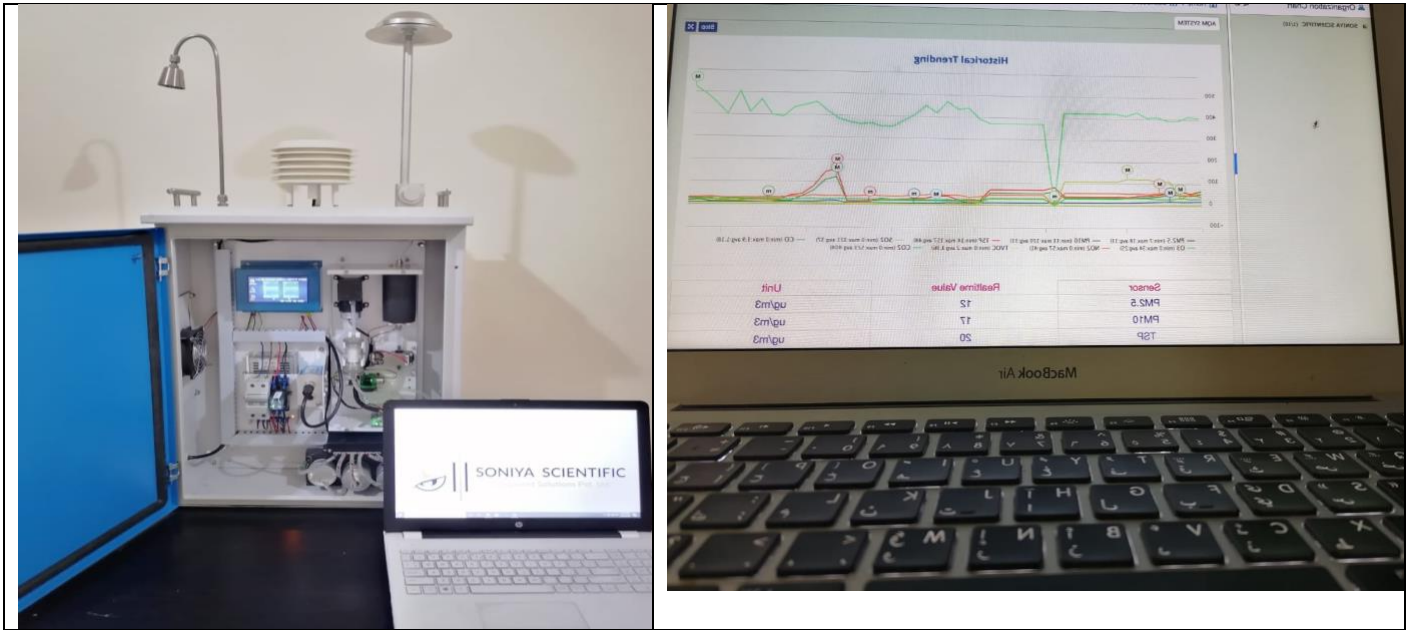
## SENSORS

Imported high precision Electrochemical sensor  
 B4 series Environmental air quality professional sensor  
 Response quickly  
 Strong anti-interference ability  
 High resolution  
 Excellent linearity  
 More than 2 years life

S. No.	Name of Parameters	Sensor Range	Minimum Detection Limit	Accuracy	Precision	Resolution	Sensor Respond Time
1.	CO	0~100PPM	0.3ppm	±3	±3	0.1ppm	≤30s
2.	O <sub>3</sub>	0~1000PPB	3ppb	±3	±3	1ppb	≤30s
3.	H <sub>2</sub> S	0~100PPM	0.01ppm	±3	±3	0.1ppm	≤30s
4.	NH <sub>3</sub>	0~100PPM	0.01ppm	±3	±3	0.1ppm	≤30s
5.	SO <sub>2</sub>	0~1000PPB	3ppb	±3	±3	1ppb	≤30s
6.	NO <sub>2</sub>	0~1000PPB	3ppb	±3	±3	1ppb	≤30s
7.	PM <sub>2.5</sub>	0~2000ug/m <sup>3</sup>	NA	±3	±3	1ug/m <sup>3</sup>	≤30s
8.	PM <sub>10</sub>	0~2000ug/m <sup>3</sup>	NA	±3	±3	1ug/m <sup>3</sup>	≤30s
9.	TSP	0~2000ug/m <sup>3</sup>	NA	±3	±3	1ug/m <sup>3</sup>	≤30s



## CLOUD PLATFORM REAL-TIME DATA AND CURVE DISPLAY



## URBAN ENVIRONMENTAL AIR QUALITY MONITORING GRID



HEAVY INDUSTRY

PETROCHEMICAL INDUSTRY

MINING YARD



## SPECIAL FEATURES:

### AUTOMATIC DEHUMIDIFICATION/HIGH PRECISION ENVIRONMENTAL PROTECTION

- Dynamic heating dehumidification system can minimize the influence of humidity on particulate matter
- Through the actual test, when the air humidity reaches 95%RH in this system, the error of monitoring value and state control point is within 20%
- The error can be further reduced by comparing with the multi-point calibration of the state control point
- Cooperate with humidity monitoring, adjust the heat dehumidification module in real time, further reduce system running power
- Imported up to 13 parameters for environmental air quality, respond quickly
- Strong anti-interference ability
- High resolution(ppb Grade); Wide work range
- The data acquisition system uses 32-bit high performance industrial-level processors, with 16-bit high resolution ADC enables the sensor to perform more effectively

Product Name	Air Quality Monitor
Product Mode	AQM-G01
Sampling Mode	Diffusion/Pump-suction Mode
Data transmission	RS485 Modbus, Cloud System (optional)
Preheating Time	Sixty (60) seconds
Body Material	Cold Rolled Steel Plate
Installation Method	Column/wall mounted(optional)
Working Temperature	-20°C to 70°C
Working Humidity	10%RH to 95%RH
Storage Temperature	-40°C to 80°C
Power Supply	AC220V/50Hz/Solar power (optional)
Overall Power Consumption	<20W(Humidity<90%RH) ; <40W(Humidity>90%RH),
Dimension	500*400*300mm
Protection Grade	IP65 Dustproof/Waterproof