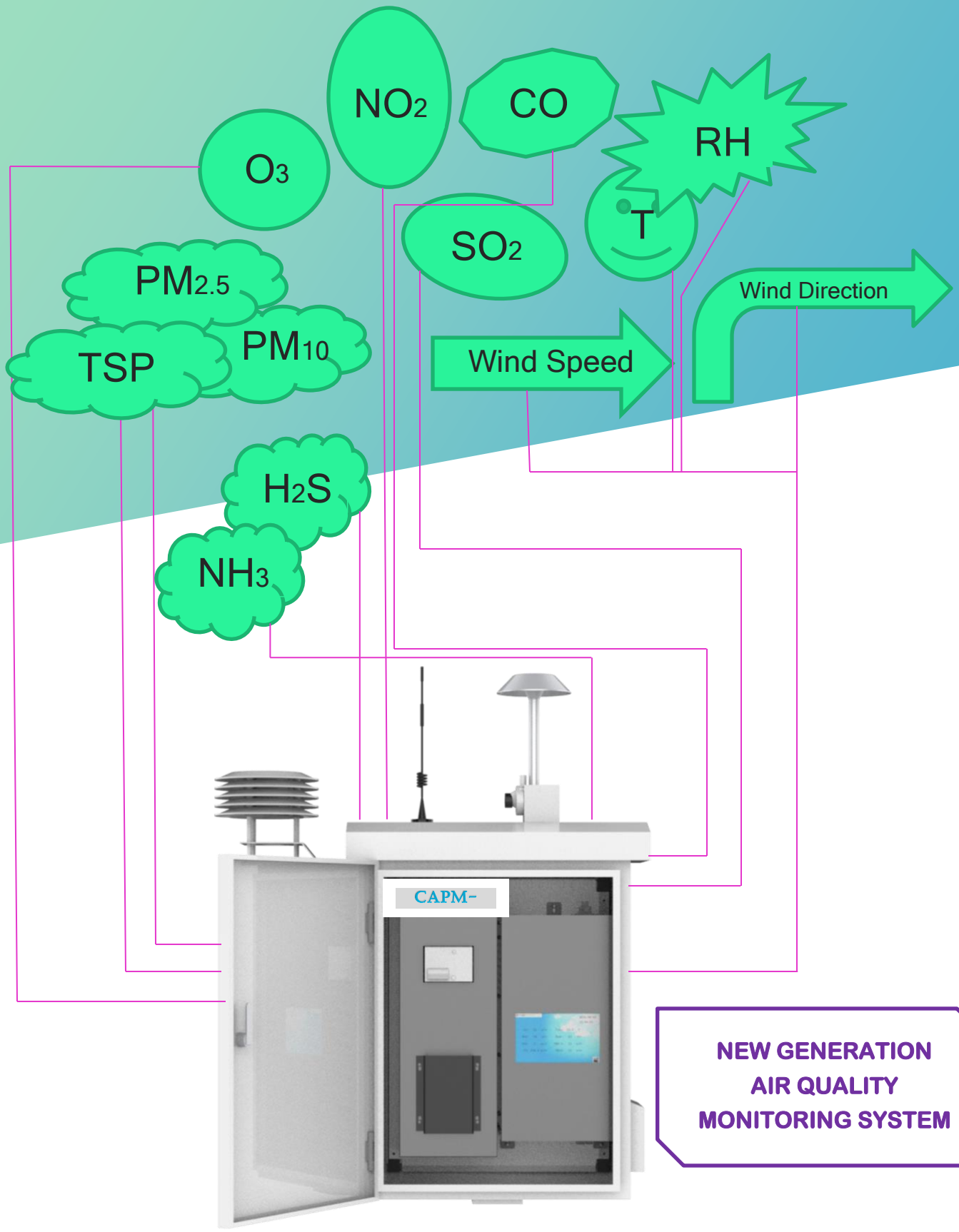
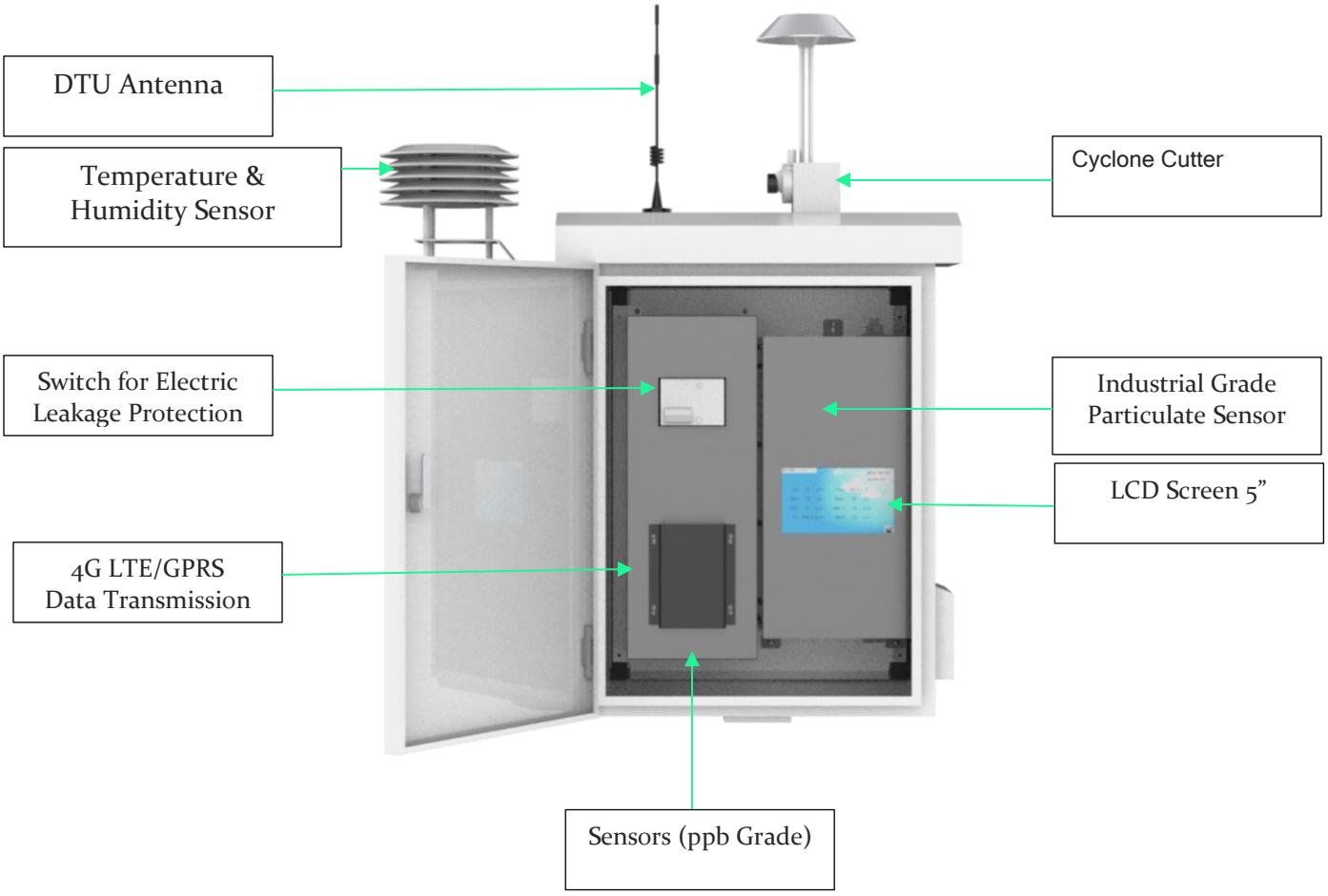
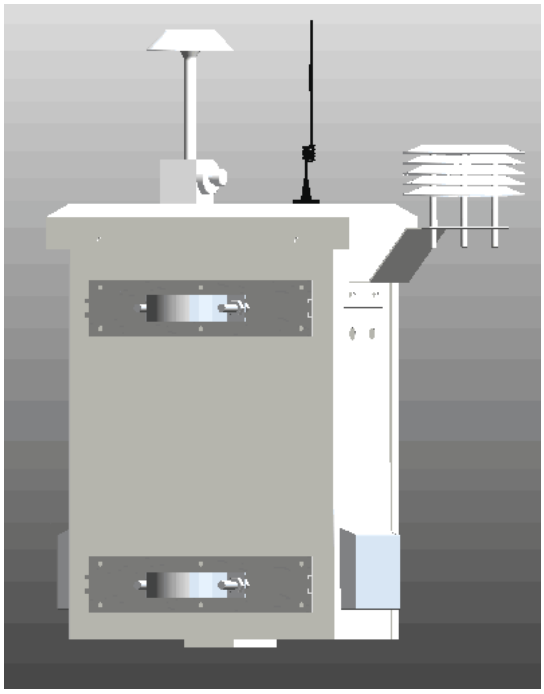


NEW GENERATION AIR QUALITY MONITORING SYSTEM

SONIYA SCIENTIFIC EQUIPMENT SOLUTIONS PVT LTD
Nawbasta Khurd Gayatri Nagar STP Road
Lucknow, U.P., India
Contact: +91-9165257992
Email: info@soniyascientific.com
Web: www.soniyascientific.com

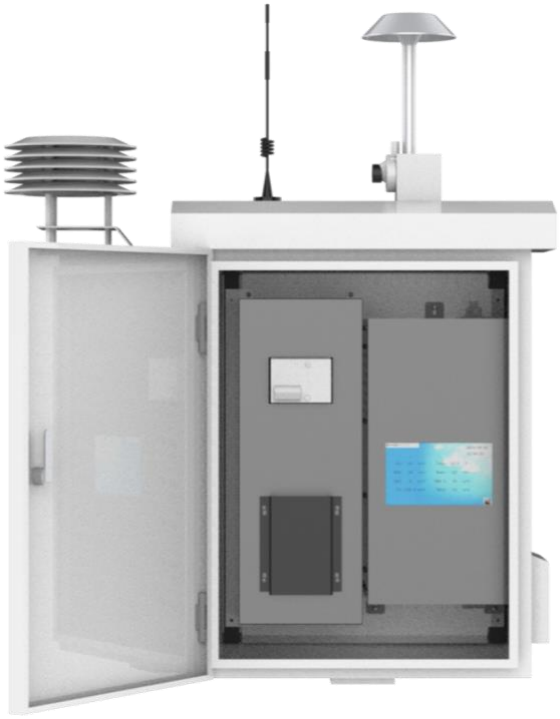




International standard Aluminium back beam; with anchor ear so it is convenient for wall mounting and pole installation; reliable and stable installation method; combined vertical bar (easy to pack and shipping).

Sufficient Material/Solid Structure

- 1.2mm Industrial Grade Cold rolled carbon steel
- 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).



Wireless Transmission Module

Power Supply Module

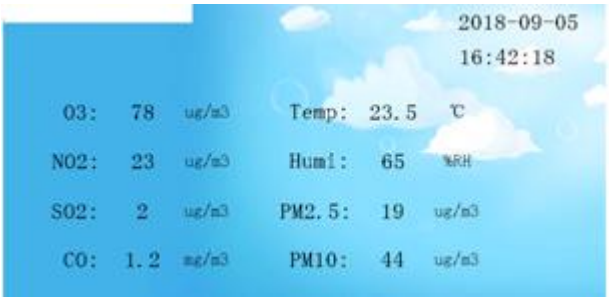
PM Acquisition Module

Gas Monitoring Module

PM Monitoring Module

T/RH Monitoring Module

Display Module

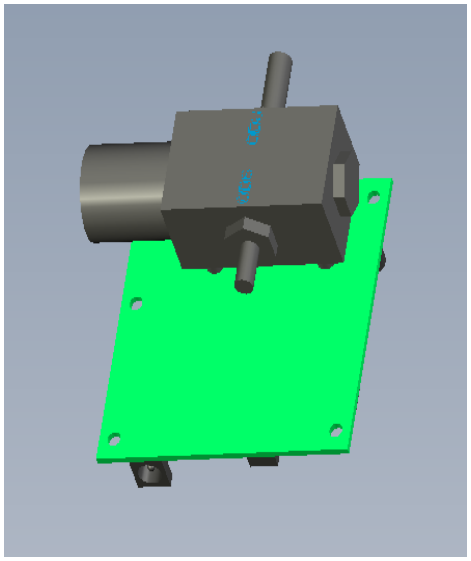


Large screen display Data intuitive

High-definition display
5.0 inch
800*480 resolution
Backlight life＞20000h
Working temperature: -20℃ - 70℃
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	Φ6 Flexible Hose



DUST SENSOR

PM parameter	Technical Index
Detecting Range	PM2.5 （0-2000） ug/m3 PM10(0-2000)ug/m3
Sampling Flow	1.3L/min, precision±0.15
Sampling Time	Adjustable/5min
Partical Size	PM2.5, PM10, PM100, TSP
LOD	2ug/m3
Resolution	1ug/m3
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℃
3.2uW power consumption
Temperature Range ： -40 – 120℃
Humidity Range ： 0-100%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

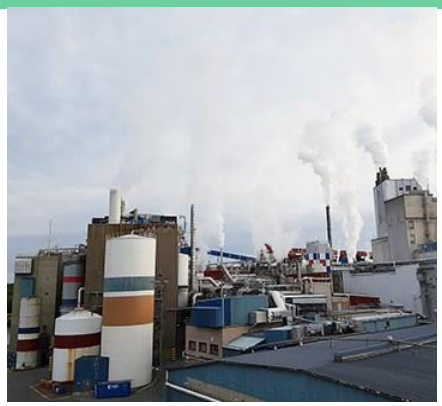
Gas factor technical parameters	Detecting Range (ppb)	Resolution (ppb)	Detection limit (ppb)	Precision/%FS
Ozone(O_3)	2000	1	1	±5
Nitrogen dioxide(NO_2)	2000	1	1	±5
Sulfur dioxide(SO_2)	2000	1	1	±5
Carbon monoxide(CO)	200ppm	100	40	±3

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 upto 6 electrode sensor 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	Continuous Air Quality Monitoring Station
Product Mode	CAPM-G01
Sampling Mode	Diffusion/Pump-suction Mode
Data transmission	RS485 Modbus， 4G LTE(optional)
Preheating Time	Sixty (60) seconds
Body Material	Cold Rolled Steel Plate
Installation Method	Column/wall mounted(optional)
Working Temperature	-20℃ to 70℃
Working Humidity	10%RH to 95%RH
Storage Temperature	-40℃ to 80℃
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