

Particle Counter



AQD5000-WH

Ambient Air Quality Monitoring System

Product overview

AQD5000-WH air quality monitoring system is widely used in urban air quality monitoring and industrial air emission pollution monitoring. It can simultaneously measure various environmental pollution gases, particulate matter and meteorological parameters in the air. The system supports RS485 signal transmission, with data storage and export functions. Through the wireless acquisition terminal, the measurement data can be transmitted to the cloud platform in real time, and can be remotely controlled through the cloud platform.

Product Advantage

- 1-9 kinds of gas parameters can be monitored at the same time, and measurement modules such as particle parameters and meteorological parameters can be selected according to user needs
- 7-inch color touch screen display, easy to view data
- Equipped with a professional outdoor shield, it can be perfectly dust-proof and rain-proof, and can continuously monitor and work stably in high or low temperature environments
- Standard equipped with storage function, which can store at least two years monitoring data
- It can work 7x24 hours without interruption, with functions such as real-time data upload, fault self-diagnosis and automatic restart
- Standard output RS485 signal, a set of relay signal
- Optional solar power supply panel to support normal work when without mains power
- Optional outdoor LED display large screen, easy to view real-time data at any time
- Optional adapter card and PC software, real-time viewing of concentration and historical data on the computer.
- Optional 4G DTU and Lora wireless module, real-time upload gas concentration value to the ecological environmental protection bureau, departmental server
- Optional camera to realize real-time, remote and automatic monitoring of dust concentration and on-site video and image collection



Technical parameters

Gas parameters (can be combined freely):	Measurement parameters: ozone, sulfur dioxide, nitrogen dioxide, formaldehyde, carbon monoxide, TVOC, etc.; Measuring range: 0-1000ppb, 0-1000ppb, 0-1000ppb, 0-5ppm, 0-20ppm, 0-5ppm; Resolution: 1 ppb, 1 ppb, 1 ppb, 0.01ppm, 0.001ppm, 0.001ppm; Measuring principle: electrochemical, infrared, PID photo ionization and other principles Detection accuracy: ±3%.S Response time: ≤30S
Particle parameters (optional):	Measurement parameters: PM2.5, PM10, PM0.3, PM1.0, PM10.0, TSP, etc. Measuring range: 0-1000ug/m3, 0-5000ug/m3; Resolution: 1ug/m3, 1ug/m3; Measuring principle: laser principle Response time: ≤30S
Meteorological parameters (optional):	Measurement parameters: temperature, humidity, wind speed, wind direction, air pressure, light intensity, noise, etc.; Measuring range: -40° C~+120° C, 0-99%RH, 0-20m/s, 8 directions, 0-120Kpa, 0-200,000 Lux, 30dB~130dB; Resolution: 0.1°C, 1%RH, 0.1 m/s, 1 piece, 1 Kpa, 1Lux, 1dB; Measuring principle: thermocouple, mechanical and other principles
Sampling method:	Pump suction
Pump flow rate:	0.5L/min (gas); 1.8L/min (particles/dust)
Monitoring way:	Continuous automatic real-time monitoring
Working time:	24 hours continuous work
Display screen:	7 inch color touch screen
Display mode:	Adaptive display channel number, automatic page turning
Signal output:	RS485, relay, 4G DTU(optional), LORA(optional)
Power supply:	100-240VAC, 2A
Working current:	<100Ma (Max)
Working voltage:	Internal: 12VDC; External: 100-240VAC/50&60HZ
Working temperature:	-10°C ~ 55°C
Working humidity:	0-95%RH, Relative humidity
Working Pressure:	80~106kpa
Alarm type:	Sound and light alarm (optional)
Product shell:	Anti-corrosion, sun protection, anti-collision
Installation way:	Column type, wall-mounted
Product size:	480×580×163mm(Excluding external sensors, rainproof beams, pole and mounting brackets)
Product weight:	18kg(Excluding external sensors, rainproof beams, pole and mounting brackets)
Event storage:	Standard is 32GB SD card, and a large capacity TF card can be customized