

Perfect
Vision

AIR QUALITY MONITORING SYSTEM

PAVING THE WAY TOWARD NET ZERO

ABOUT THE SOLUTION

The **Air Quality Monitoring System** can measure outdoor air pollutants in real-time, measuring data quickly and accurately. It can be customized for different applications demands.

APPLICATIONS

Oil & Gas, Construction, Smart Cities, Cement Plant, Mining, Landfill Plant, Environment Monitoring, Road Safety, Refining Factories, etc.



All-in-One Solution



Carbon Monoxide



Particulate Matter



O3, NO2, SO2



Humidity Measurement



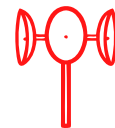
Temperature Measurement



Noise Monitoring



Barometric Pressure



Wind Speed



Wind Direction



Alarm Function



Remote Parameter Adjustment

Technical Parameter:

Items	Description	Specification
Particle Module	Monitor method	Continuously, automatically and real-time
	Working principle	Light scattering technique
	Measurement data	PM2.5, PM10, TSP
	Measuring range	0~1000ug/m3 (Range can be extended)
	Response time	≤60s
	Resolution	1ug/m3
	Measurement accuracy / reproducibility	> 100ug/m3, ±20%
	Parallelism	< 10%
	Sampling flow	1.3L/min, ±0.15
	Sampling time	Adjustable(Default is 5munites)
	Dehumidification	With the automatic dehumidification function module
	Cutter	Cyclone cutter
Fault alarm	Real-time display the fault alarm	
Gas Module	Monitor method	Continuously, automatically and real-time
	Working principle	Electrochemical sensor, Infrared sensor, PID sensor
	Gas Monitoring	SO2, CO, NO2, O3, etc.
	SO2	Measuring range: 0~1000ppb Resolution: 1ppb Response time: <45s
	CO	Measuring range: 0~200ppm Resolution: 0.1ppm Response time: <45s
	NO2	Measuring range: 0~1000ppb Resolution: 1ppb Response time: <45s
	O3	Measuring range: 0~1000ppb Resolution: 1ppb Response Time <45s
Meteorological Parameters	Temperature: Measuring range: -30℃~60℃, Precision: ±0.3℃ (20℃) 0~45m/s	
	Humidity: Measuring range: 0~95%RH, Precision: ±5%RH	
	Wind direction: Measuring range: 0~360°, Precision: ±5° 0.1m/s	
	Wind speed: Measuring range: 0~60m/s, Precision: ±0.3m/s 0~360°	
	Barometric pressure: Measuring range: 600~1110hpa, Precision: ±0.5hpa	
Noise Meter	Measuring range: 30~130dB (A)	
	Sampling frequency: < 1s	
	Dynamic analysis range: ≥100dB (A)	
	Frequency weighting: A, C,Z Time weighting: F, S	

System Specification:

Data Efficient Transmission Rate	≥95%
Remote Control	Support for remote setting
Interface	RS485 port, Network port
Transmission Network	Automatically and real-time upload data, optional 4G/ GPRS
Box Material	Q235 spray, Stainless box optional
Scaffold Material	Q235
Scaffold Height	Standard height is 4.5m, Flange connection(1m fixed underground, 2*1.5m+1*0.5m)
Lightning Arrester	Length 1.5~2m, Q235 Galvanized material
Working Environment	Temperature: -20~50℃ Humidity: 5%RH~95%RH Pressure: 65~108Kpa
Protection Grade	IP55
Power Supply	AC220V/50Hz/Solar power (optional)