

## ES80A-A10

# Miniature Ambient Air Quality On-line Monitoring System

## FOR ENVIRONMENT POLLUTION PROTECTION



The Air Quality Online Monitoring System Is A Real-Time Monitoring System Designed For Outdoor Use Capable Of Monitoring Parameters Such As PM2.5, PM10, TSP, NO2, SO2, O3, CO, HCL, H2S, O2, VOC, NH3, CO2, Temperature And Humidity, Wind Speed, Wind Direction, And Atmospheric Pressure In The Environment.

## Features-Purpose Designed For Outdoors

Designed For Outdoor Use; Access The Air Quality Data For 24 Hours/365 Days; The Modular Design Method Can Simultaneously Monitor Gas Parameters, Inhalable Particles, Meteorological Parameters And Other Items, And Can Be Freely Configured According To Requirements; Have Local Storage Function, And Support The Storage Of Data For Not Less Than One Year; Solar Power Supply Can Be Selected To Realize The Complementarity Of Solar Energy And Commercial Power;

## Application Scenario



Street Intersections,  
Highways Etc;



Forest Fire Alarm,  
Agricultural Straw Burning;



Petrochemicals, Mining,  
Steel Mills, Oil Refineries;



Garbage Disposal,  
Tourist Attractions;



Residential Complexes,  
Schools, Hospitals;



Urban Ambient  
Air Quality Monitoring;

## Specification Parameter Information

### Particulate Matter Technical specifications

Measurement Parameters	PM2.5	PM10	TSP
Range	(0-1000) $\mu\text{g}/\text{m}^3$	(0-1000) $\mu\text{g}/\text{m}^3$	(0-30) $\text{mg}/\text{m}^3$
Linearity	$1\mu\text{g}/\text{m}^3$	$1\mu\text{g}/\text{m}^3$	$1\mu\text{g}/\text{m}^3$

### Technical Specifications Of Gas Pollutants

Measurement Items	PM2.5	PM10	TSP	TSP
SO <sub>2</sub>	Electrochemical	(0-500)ppb	1ppb	<45S
NO <sub>2</sub>	Electrochemical	(0-500)ppb	1ppb	<80S
O <sub>3</sub>	Electrochemical	(0-500)ppb	1ppb	<80S
CO	Electrochemical	(0-50)ppm	0.01ppm	<30S
H <sub>2</sub> S	Electrochemical	(0-20)ppm	0.01ppm	<60S
CO <sub>2</sub>	Non-Dispersive Infrared	(0-5000) ppm	0.01ppm	Quick Response
NH <sub>3</sub>	Electrochemical	(0-100)ppm	0.01ppm	<60S
HCL	Electrochemical	(0-00)ppm	0.01ppm	<60S
O <sub>2</sub>	Electrochemical	(0-30)%VOL	-----	<15S
TVOC	PID	(0-10) ppm	0.01PP	<5S

### Technical Parameters Of The Whole Machine

Operating Conditions	
Working Environment	-20℃~50℃
Relative Humidity	10%~95%
Atmospheric pressure	80~110kPa
Data Communication And Dstorage	
Output	RS485/RS232, SD Card, USB
Protocols	MODBUS Protocol, HJ212, 4GLTI
Storage	Meet data retention for not less than one year (by minute data)
Power Supply	
External Power Input	AC110-230V/50-60Hz
Switching Power Supply	Automatic zero calibration Power: whole machine + cooling 296.3W

