

### DUST ONLINE MONITORING SYSTEM

The Online Dust Monitoring System Is Designed For Environmental Inspectors Who Need To Monitor And Manage Outdoor Dust And Particulate Matter. It Is An Instrument That Can Reliably And Accurately Measure PM2.5, PM10, TSP And Emission Mass In Real Time Based On The Principle Of Light Scattering.



#### Features

- Purpose Designed For Outdoors;
- Fully Integrated Hardware And Software System;
- Real-Time Continuous PM10, PM2.5, PM1 And TSP;
- Access Air Quality Data 24H/365Days;
- Remote Wan And 4G Connectivity;
- Optional:Wind Speed/Direction , Weather And Noise Sensors;
- Battery/Solar Power Optional;
- Add Gas Measurements At Any Time;

#### Applications

- Urban Ambient Air Quality Monitoring ;
- Tourist Attractions , Forest Fire Alarm ;
- Highways, Street Intersections, Etc ;
- Petrochemicals, Power Plants, Mining, Steel Mills, Oil Refineries ;
- Garbage Disposal, Tourist Attractions , Residential Complexes, Schools , Hospitals ;

#### Product Appearance Display



## Specification Parameter Information

Product Name/Model	Dust Online Monitoring System/ES80A-Y8
Detection Method	Inhalation
Monitoring Parameters	PM2.5, PM10, TSP, Wind Speed, Wind Direction, Temperature And Humidity, Atmospheric Pressure
Air Intake Heating	Dynamic Heating And Dehumidification According To Ambient Humidity
Data Transmission	4G LTE
Preheat Time	60 Seconds
Ambient Temperature	-20°C--50°C
Environment Humidity	10%RH-95%RH(No Condensation)
Power Supply	AC220V/50Hz
Machine Power Consumption	30W-35W (LED Screen Power Consumption Is Not Calculated)
Protection Class	IP53 Dustproof And Splashproof
The Main Material	Cold Rolled Steel Plate
Installation Method	Outdoor Pole Installation

### Technical Indicators

Monitoring Parameters	Range	Resolution	Accuracy
PM2.5	0-1000ug/m3	1ug/m3	>100ug/m3:±25%
PM10	0-2000ug/m3	1ug/m3	>100ug/m3:±25%
TSP	0-2000ug/m3	1ug/m3	>100ug/m3:±25%
Temperature	-30°C--50°C	0.1°C	±1°C
Humidity	0-95%Rh	1%Rh	±5%Rh
Atmospheric Pressure	600-1100hPa	1 hPa	/

### Optional Parameter Table

Monitoring Parameters	Range	Resolution	Accuracy
Rainfall	0~4mm/min	0.1mm	±0.4mm (≤10mm) ±4% (>10mm)
Illumination	0~200,000 LUX	/	±7% (25°C)
UV Radiation	0~400mW/m <sup>2</sup>	1w/m <sup>2</sup>	±5%
Noise	30dB(A)~130dB(A) (A-Weighted)	/	±3dB
Wind Speed	0~60m/s	0.1 m/s	±1m/s
Wind Direction	0-360°	1°	/
Wind	Level 0-15	Level 1	/

## Case Show

