

DUST MONITOR



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Model No- AI-DM08

Overview

Dust Online Monitor is designed to online real-time monitoring of multi environmental factors, adopts laser scattering method to monitor PM2.5, PM10, and noise, temperature, humidity, light, wind speed and wind direction. The collected data is transferred to the intelligent cloud platform for processing, giving customers all the monitoring information. With data collection & transmission and video monitoring module, its easy to realize real-time data and video display.

Features

- Laser scattering measurement of PM10, PM2.5 with quick-response and wide measurement range
- Continuous 24 hours online monitoring
- Rugged dust-proof, rust-proof and moisture-proof shell, IP65 grade
- SMSAlerts
- Quick set up and easy operation

Applications

The Dust Monitor is mainly used in Communities, College campuses, Road dust monitoring, Quarries and mines, Garbage dumps, Demolition sites, , Road dust, ports and bulk handling terminals, construction and waste sites.

Specifications

Enclosure	Water-proof, dust-proof, rust-proof, lightning protection, heat dissipation; GPRS transmission		
Particle module	Detection Method: Light scattering laser photo meter; Resolution:0.1ug/m ³ ; Measured Mass Fraction:PM2.5, PM10 Concentration Range:0~10000ug/m ³ (0-2000ug/m ³ ; 0-10mg/m ³ ; 0-30mg/m ³) optional		
Noise Module	Range:30-130dB		
Wind speed & wind direction module	Wind speed Range:0~45m/s; Accuracy:±0.3m/s;	Resolution:0.1m/s; Start-up speed:≤0.5m/s;	
Humidity & Temperature Module	Temp: -40~120°C; Humidity: Range0~100%RH;	Resolution:0.1°C; Resolution:0.1%RH;	Accuracy:±0.3°C; Accuracy:±2%RH;
Barometric Pressure	Range:10-1100hPa	Resolution:0.1hPa;	Accuracy:±0.3hPa
Repeatability	≤±2%	Flow Rate	1L/min ±5% constant rate
Precision	≤±10%	Interface	RS485/RS232
Resolution	0.1μg/m ³	Communication Protocol	Modbus RTU
Max Measurement	30000ug/m ³	Protection Grade	IP65
Detection Period	Default value 60s (1—999s adjustable, suggested ≥ 6s)		
Operating Temperature	Temperature:-10°C~50°C;	Humidity: < 85%RH;	Pressure:86~106kpa
Power Supply	220V		
Extensibility	O3, NO2 ,SO2, CO2 etc		



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