

## Stardust™ APM-100

Online Particle Measurement Analyser

### High Performance Features

- Optical Particle Counting (Laser Scattering)
- Dynamic sample heating – Removes influence of moisture
- Automatic flow rate feedback - Real-time control
- Automatic switching of dual sample streams - Automatic cleaning
- Optional wind speed/direction, 5G communication, PID and other modules
- Replaceable, detachable filter
- Dedicated RS485 communication interface

### Description

The Stardust APM-100 online monitor integrates online particulate monitoring, Internet of Things transmission, meteorological parameters and other technologies. It is applicable in online monitoring of air quality in construction sites, chemicals, steel, coking, roads and parks. It exhibits high performance, adopting light scattering laser technology, with good stability and high precision. The instrument is equipped with an automatic sample heating system which tightly controls the sample temperature. It is equipped with dual-channel automatic cleaning combined with automatic feedback control of the sample flow rate. These features greatly reduce contamination of the sensor and prolong the service life. The Stardust APM-100 is especially suitable for samples in coking, steel and other challenging scenarios.

### Specifications

Attribute	Specification
Measurement Technique	Laser scattering type (optical particle counting)
Measured parameters	PM2.5, PM10, TSP
Range	0-1000ug/m <sup>3</sup> , 0-10mg/m <sup>3</sup> , 0-20mg/m <sup>3</sup>
Power	220VAC
Precision	≤15% (PM2.5) ≤15% (PM10)
Accuracy	±25%
Communications	RS485, 4G, 5G (optional)
Ingress Protection	IP65
Environment	Temp: -10°C~50°C, Humidity: 95%RH (non-condensing)
Options	Wind speed/direction, Noise, PID VOC Module, Battery, LED display
Certification	CCEP (pending)

### Applications

- Urban Air Monitoring Stations
- Roadway Dust Monitoring
- Construction Site Air Quality
- Steel & Coking Plants
- Power and Petrochemical Plants
- Residential Area Monitoring
- Tourist Attractions
- Work Shops
- Agricultural Processing Centres
- Schools/Hospitals/Gov't Buildings
- IAQ in Shopping Areas Public Malls

