



Ain **MOT 247**

Online Dust Monitoring

AirMOT247 Atmospheric Particulate Sensor

Description

AirMOT247 Sensor is one of the Atmospheric aerosol Sensors that independently developed by our company. It adopts the principle of laser scattering and can accurately detect and calculate the concentration of suspended particles in the per unit volume air with different particle sizes. It can realize the real-time output of the mass concentration value of PM2.5, PM10 and TSP .



Application

1. Atmospheric environment detection and early warning system
2. Indoor and outdoor air quality testing;
3. Online monitoring of road dust;
4. Construction site online dust monitoring

Specifications

AirMOT247 Sensor	
Detection Principle:	Light Scattering
Range:	PM 1: 0-10000µg/m ³ ; PM2.5: 0-10000µg/m ³ ; PM10: 0-10000µg/m ³ ; TSP: 0-10000µg/m ³ ;
PM1 Accuracy:	≤100 µ g/m ³ , MPE: ±25 µ g/m ³ ; >100 µ g/m ³ , MPE: ±25%
PM2.5 Accuracy:	≤100 µ g/m ³ , MPE: ±25 µ g/m ³ ; >100 µ g/m ³ , MPE: ±25%
PM 10 Accuracy:	≤100 µ g/m ³ , MPE: ±25 µ g/m ³ ; >100 µ g/m ³ , MPE: ±25%
Resolution:	PM2.5/PM10/PM1: 0.1 µg; TSP: 1 µg
Minimum Detection Limit:	PM2.5: 5µg/m ³ ; PM10: 10µg/m ³ ; PM1: 0µg/m ³ ; TSP: 15µg/m ³ ;
Parallelism (Repeatability):	≤20%(PM2.5); ≤15%(PM10)
Repeatability:	≤20%
Response Time:	1 s
Present Sampling Flow Rate:	1 L/min
Work Conditions:	-30~70°C, 0~95%RH
Storage Conditions:	-40~85°C, 0~95%RH(non-condensing)
Voltage:	DC 5V+0.1V, ripple <50mV
Operating Current:	< 250mA
Size:	W85 × H74 × D24.9 mm
Lifespan:	>3 years

Note

- ① Please do not place the sensor in a high concentration environment for too long. Otherwise, the life span of the sensor will be severely depleted.
- ② GRIMM as a reference, 25±2C, 50±10% RH are environmental conditions.
- ③ Our aerosol sensor has a built-in air pump interface, which drives the Nedic022. The factory preset flow is 1L/min .
- ④ High humidity will interfere the result. Please dehumidify on time

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