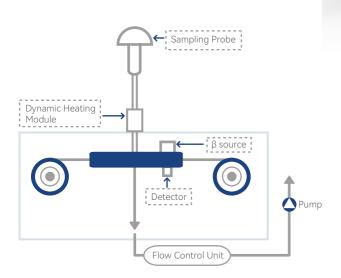
## **BPM-200 Continuous Particulate Monitor**



The BPM-200 measures ambient particulate by using well applied beta ray attenuation technology. PM2.5 measurement can also be achieved by introducing corresponding cyclone.





## **Principle**

Particulate matter sample is pulled by a vacuum pump and concentrated on filter tape spot, the concentrated sample is advanced to measuring position where between beta ray source and detector. An attenuation signal of beta ray is detected which represents the mass of sample particulate. Particulate concentration can be determined by dividing mass to volume which has been strictly controlled during sampling with fixed flow rate.

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Stable and long life time radiation source

01. with US EPA method

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Low maintenance and operation requirement

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Automatic continuous operation up to 60 days

User selectable measurement cycle 03.

Reference film calibration

Various output with serial

printer and GPRS as optional

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**Specifications** 

Principle	Beta ray attenuation
Resolution	0.1μg/m³
Lower Detectable Limit	0.002mg/m³
Accuracy	≤2%
Range	(0~1)mg/m³, (0~2)mg/m³, (0~5)mg/m³, (0~10)mg/m³(Selectable)
Sample Flow Rate	16.7L/min
Display	LCD
Flow Accuracy	±1%F.S
Flow Stability	≤±2%/24h(Optional)
Calibration Film Reproducibility	≤±2%
Sample Cycle	60min(Optional)
Source	C14 source, active10μCi, exemption source
Filter Paper Tape	Glass fiber
Roll Length	>20meters
Detector	PMT
Output	RS232, RS485, Ethernet
Data Transmission	2 analog (0~5) V; 2 channel analog (4~20) mA; 12 digital input/output; 4-way relay output;
Power Supply	(220±22)V AC, (50±1)HZ
Operating Temperature	(-5~55)°C
Ambient Humidity	0~95%RH(No condensation)
Ambient Pressure	86~116kPa
Dimensions	310(H)x430(W)x400(D)mm
Weight	≈25kg, without accessories