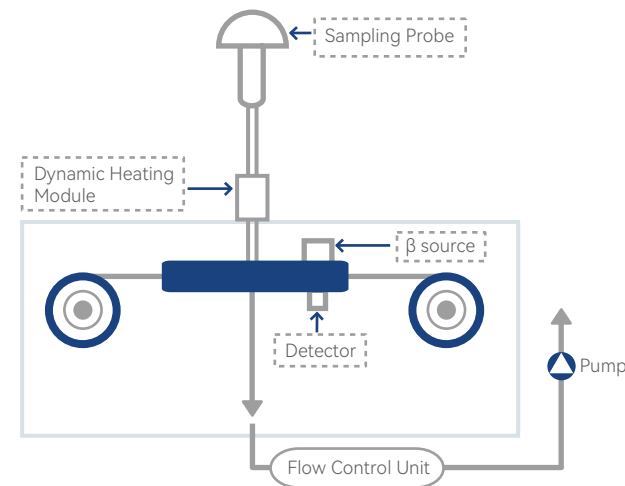




# BPM-200 Continuous Particulate Monitor

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.

## Features

01. Compliance with US EPA equivalent method
02. Automatic continuous operation up to 60 days
03. Reference film calibration
04. Stable and long life time radiation source
05. Low maintenance and operation requirement
06. User selectable measurement cycle
07. Various output with serial printer and GPRS as optional

## 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;<br>2 channel analog (4~20) mA;<br>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                                                                       |