



## APM 550Mini



### NEED OF MONITORING

PM 2.5 Particulate matter has been treated as a critical pollutant ever since concern for air pollution was felt by society. In India PM 2.5 has been included in the revised ambient air quality standards notified in November 2009.

### APPLICATION

APM 550MINI is a compact and robust instrument for monitoring PM 2.5 in ambient air that has been designed for the users who have to frequently move the instrument from one location to another.

### WORKING PRINCIPAL

The PM10 and PM2.5 impactors used in the APM 550MINI are based on designs standardized by USEPA and as such the system complies with international norms for PM2.5 Samplers. Ambient Air enters the APM 550MINI sampler through an omnidirectional inlet designed to provide a clear aerodynamic cut-point for particles larger than 10 microns. The air stream then passes through a WINS Impactor that retains the fraction between PM10 and PM2.5. The sampling rate is held constant at 1m<sup>3</sup>/hr by a critical orifice. A special light weight oil free pump has been used in the instrument and adequate cooling air draft has been provided to ensure that the operating temperature near the filter holder remains close to ambient temperature. Sampling rate is continuously displayed on a built-in rotameter while the duration of sample is available through a Time Totalizer.

### FEATURES

- PM 10 and PM 2.5 Impactors as per designs standardized by USEPA.
- Brushless, Oil-free, light weight pump practically requires no maintenance.
- Filter holder designed for any 47mm diameter filter media.
- Provision to attach gaseous sampler.
- Compact cabinet design for easy portability.



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### SPECIFICATIONS

Flow Rate	1 m <sup>3</sup> /hr controlled by Critical Orifice and displayed on a rotameter requires no maintenance.
Size Selective Inlets	PM10 Impactor and WINS Impactor for PM2.5 conforms to USEPA design.
Vacuum Pump	Oil Free, light weight pump driven by brushless induction motor.
Time Totalizer	Records the actual time duration of each sample.
Provision to attach Gaseous Sampler	The APM 550MINI has an in-built valve and piping for use of a gaseous sampling attachment for monitoring SO <sub>2</sub> , NO <sub>x</sub> , NH <sub>3</sub> , Ozone etc.
Compact & Light	Single unit compact cabinet made of Aluminum is light and robust.
Calibration Unit	Leak Check & Flow rate measurement adapter

To facilitate sampling of gaseous pollutants provision has been made to attach the APM 411/ 411TE gaseous sampling attachment with the main sampler.

**1**  
**Year**  
**Warranty**

\*Specifications are subject to change without any prior notification



For More Information Contact

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