SERRAX TECHNOLOGIES

An ISO 9001 : 2015 Certified Company

PRODUCT CATELOG













A Leading Manufacturer and Suppplier of Air Quality Monitoring, Gas Monitoring, and Industrial Process Measurement Instruments.

PM10 + PM2.5 COMBINED SAMPLER (APM556 MFC)



Simultaneously collect high-quality samples of fine (PM2.5) and coarse (PM10) ambient particulate matter (PM) with the Serrax's APM556MFC Combined Air Sampler. Particles <10µm are collected via a 10um inlet and separate inlet for PM2.5 and coarse PM10 fractions by a Combined Samplar virtual impactor.The sampler works by drawing air through a series of filters, which separate the PM based on their size. The PM 10 fraction is collected on a filter with a pore size of 10 micrometers, while the PM 2.5 fraction is collected on a filter with a pore size of 2.5 micrometers. The sampler is equipped with a mass flow controller (MFC) to ensure a constant flow rate during sampling, which is essential for accurate measurements. The split flow configuration of the virtual impactor allows a PM10 aerosol to be separated into fine particles and coarse particles for subsequent collection onto 2 separate PTFE membrane filters.

SPECIFICATIONS

Size Selective Inlets	PM10 Impactor and PM2.5 Wins Impactor for fine particulate conform to USEPA design.
Sample Flow Control and Reporting	Active flow control system using mass flow controller. Controls primary (PM-2.5) sample flow at 15 L/min and secondary (PM-Coarse) sample flow at 1.67 L/min. The sampler displays the current volumetric flow rate (L/min.).
Flow Meter	Digital mass flow measurement
Elapsed Time Indicator	Real-Time clock records the operating time for each sample
Data Logger	Data Logger records and 4x40 LCD display the Flow rate, Ambient Temperature, Filter Temperature, Barometric Pressure, Filter Pressure, Elapse Time or Sampler run time, Total Volume, and Co-efficient of Variation (CV).
Logging Interval	User Selectable (1 – 60 Minutes)
Data Transfer	Through Pen Drive in Excel Format
Leak Check Testing	Leak check adaptor provided.
Vacuum Pump	Oil Free, non-pulsating pump driven by induction motor for stable flow rate
Flow Control Unit	VFD for Stable pump control
Filter Holder and Media	Accommodates 47 mm filter
Operation Mode	Manual and Auto. In-built system to control the start and stop times of sampler.
Auto Shut Off	Low Flow and High Filter Pressure settings for Auto Shutoff
Volumetric Flow Rate Compensation	Performed automatically by the built-in a system using Sensors for Ambient Temperature and Barometric Pressure

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Testtex India Laboratories Pvt. Ltd.
V Concrete
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