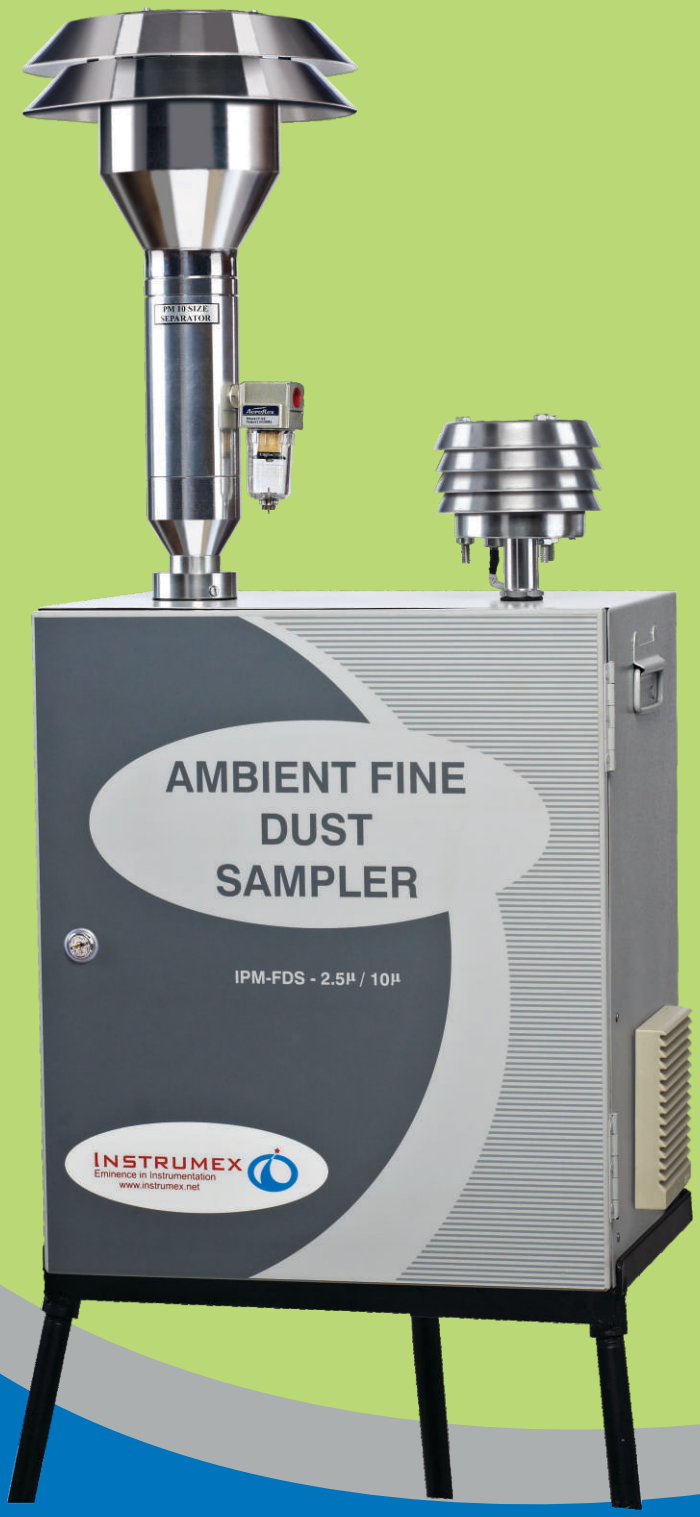
INSTRUMEX
Eminence in Instrumentation

Ambient Fine Dust Sampler

PM 2.5/10

Model No. IPM-FDS 2.5μ/10μ



Instrumex Ambient Fine Dust Sampler is designed to meet the Federal Reference Method of U.S. EPA as described in 40 CFR Part 50 Appendix L for the determination of ($PM_{2.5}$) Fine Particulate Matter. It also confirms with the CPCB Guidelines for the Measurement of Ambient Air Pollutants.

Key Features:

- Confirms with U.S. EPA & CPCB guidelines
- Choice of sampling inlets for $PM_{2.5}$, PM_{10} and TSP
- Precision flow control by Embedded Microprocessor
- Construction suitable for outdoor use
- A unique feature of in-filed data retrieval by USB interface for remote locations

Digital Flow Control with USB interface*

Product Specifications

$PM_{2.5}$ Size Separator	U.S. EPA designed $PM_{2.5}$ WINS Impactor
PM_{10} Size Separator	U.S. EPA Omni-directional ambient particle inlet with 10μ separation assembly & sample transport tube
Filter Media	Suitable for 47 mm Filter in special Delrin® Filter Cassette Carrier housed in Filter Holder assembly
Temperature Measurements	Ambient Temperature & Filter Temperature Measurement. Range- 5°C to 50°C with a Resolution of 0.1°C. Current Temperature values available on the instrument display. Average, Maximum & Minimum Temperatures recorded post sampling
Barometric Pressure Measurement	Ambient Pressure is measured continuously by a built in sensor. Range 600 to 800 mm Hg. Resolution of 1 mm Hg. Current Pressure values available on the instrument display. Average, Maximum & Minimum Pressure recorded post sampling
Clock / Timer System	Programmable Real Time control system with automatic start & stop Digital display of date, time & time of sampling. Accuracy ± 2 min / month
Leak Test	Internal & External Leak check feature for accurate sampling
Vacuum Pump	A diaphragm type pump with AC motor for reliable & low noise operation
Power Requirement	230 V AC ± 10%, 50 Hz
Dimension & Weight	Sampler Size (16x13x24)". Total height with Inlet and Stand (5.5)'. Approx 25 Kgs

Microprocessor Based Digital Flow Controller

Sample Flow Rate	Flow in LPM on digital display with a Resolution of 0.01 LPM. Flow rate maintained at 16.67LPM ($1m^3$/hr) ±5%, Accuracy ± 2% of reading throughout the sampling period
Volume Totaliser	Volume Totalized from flow rate & available on display with a resolution of $0.01m^3$
Interval Data Storage	5 Minute averages of Ambient Temperature, Filter Temperature, Barometric Pressure, Real time Flow and Volumetric Flow Rate
User Interface	A Simple menu driven interface & soft function keys for easy operation even by unskilled personnel
Flow Rate Computation	Flow is recorded as Average flow rate, Total Volume Sampled and Percentage Coefficient of Variation
Display	20x4 LCD display showing following parameters in real time: Flow Rate, Volumetric Flow, Ambient Temperature, Filter Temperature, Barometric Pressure
Warning Flag Indicator	Warning Flag Indicators for certain conditions going out of specification
Data Transfer Option*	Convenient in-field data transfer on a USB drive by an optional USB Interface. Enables user to generate reports even while sampling at remote locations. Default option is RS-232 serial port

ACM ISO 9001:2008 Certified Company Certificate No. 133883A
UKAS QUALITY MANAGEMENT

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INSTRUMEX
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