

# DUST-SOL DS-2.5

## PM-1.0, PM-2.5 & PM-10 DUST SAMPLER

The Dust-Sol DS-2.5 PM-1.0, PM-2.5 and PM-10 Dust Sampler is a device for monitoring PM-1.0, PM-2.5, & PM-10 ambient particle matter for US EPA applications. Small, durable, lightweight and battery operated, it is ideal for monitoring in remote areas or where no permanent site has been established.

### Uses for the Dust-Sol DS-2.5 PM-1.0, PM-2.5, and PM-10 Dust Sampler:

**PM-1.0, PM-2.5 & PM-10 Saturation Sampling:** In saturation sampling, a network of samplers is deployed in an area to determine where the worst air quality problems exist. In addition to providing data for environmental impact studies, saturation sampling is frequently used to determine the location for permanent monitoring sites, define boundaries of air quality concerns and extent of point source impacts.

**Indoor Air Quality Sampling:** The portable sampler's small size and low noise output makes it ideal for monitoring indoor air quality.

**Fugitive Emission Sampling:** Measure air quality impacts from a variety of sources, including volcanos, solid-fuel rocket engines and the oil fires in Kuwait. Other sources include forest fires, unpaved roads, mining and agriculture.



### General Applications:

- PM-1.0, PM-2.5, PM-10 and TSP (total suspended particulates)
- Fugitive Emission Sampling
- Indoor Air Sampling
- Industrial Hygiene Studies
- Saturation Monitoring
- Waste Sites
- Controlled Burning Studies
- Evaluates Pollution Control

### Features of the Dust-Sol DS-2.5:

- Light weight and Compact: 14.0 lbs complete
- Uses standard 47mm filter media
- AC/DC power sources with low battery indicator
- Programmable 7-day, 24 hour timer
- 10,000 continuous hour diaphragm pump
- Elapsed time indicator
- Variable flow adjustment 0-6 LPM
- Weather Proof Construction
- Interface to weather Station Model AS-2000

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### Easy to Set-Up and Operation:

The Portable Sampler is basically a pump controlled by a programmable timer, which can be set to program six sampling runs within 24 hours. The sampler has been designed for easy installation at a variety of sampling locations. When used outdoors it is mounted on a variety of structures, such as telephone poles, light posts, fence posts, etc.

The sampler is equipped to operate on either AC or DC power. In DC mode the sampler operates from a rechargeable lead-acid battery pack (up to 24 sampling hours on a charge), making the sampling site independent of line power.

Electronic circuitry continuously monitors battery voltage and airflow rate and shuts off sampling if limits are exceeded.

An elapsed time accumulator records the total pump operation time.

### Specifications:

- Pulse Free Diaphragm Pump
- Pump Rated for 10,000 Hours of Continuous Service
- Flow rate: 0-6 LPM
- Programmable 7-day timer
- AC or DC Operation
- Constant flow circuitry
- Variable Flow Adjustment
- Elapsed Time Meter
- Low Battery Indicator & Shut Off
- Low Flow Rate Indicator & Shut Off
- Sealed Lead Acid Battery
- 12 AH Capacity for 24 Hour Continuous Sampling
- Non-Directional Inlet Design
- Standard 47mm Filter Holder
- Nominal 10 micron "Cut-Point" at 5 LPM Sample Rate
- NEMA 4X Housing
- Weight: 15 Lbs with Battery Pack

### Optional Accessory:

- Tripod Stand
- Solar Panel
- Temperature, Relative Humidity and Barometric Pressure Reading with Data Logging –
- Can be combined with Weather Station, model AS-2000

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