



ARA/DRI Multi-Stage Sampler

The ARA/DRI Multi-Stage Sampler is a portable, rapidly deployable, battery-powered particulate sampling device developed with Desert Research Institute for special use in a multinational air monitoring initiative. It utilizes FRM-style impactors for improved accuracy at 5 LPM and requires no grease or oil for low maintenance use. The ARA/DRI Multi-Stage Sampler uses a unique PVC multi-stage filter holder and PVC filter cassettes for simultaneous sampling of particulates and gaseous pollutants. The compact-sized sampler can be configured to collect 24-hour TSP, PM10, or PM2.5 filter samples, along with sampling for gaseous pollutants using chemically-coated filters.

It can be equipped with a light-scattering particulate sensor to log temporal particulate variations and a PEET anemometer/vane for wind data collection. All sampling parameters, meteorological data, and particulate data are logged at 5-minute intervals and can easily be accessed via USB flash drive.

Specifications

Nominal Flow: 5 LPM

Flow Accuracy: +/-2% Flow

Precision: +/-2%

Li-Ion Batteries: 2 - 18V /5Ah

Recharge Time: 1-Hour

Battery Operation: 30+ hrs

Data Output: USB Flash Drive

Dimensions: 10" x 12" x 7"

Sampler Weight: 15 LBS

Shipping Weight: 25 LBS

106-250 PM2.5 Two-Stage Sampler



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Features

- Versatile inlet configurations for PM2.5, PM10, or TSP sampling
- PVC Two-Stage Filter Holder to simultaneously sample for gaseous pollutants and particulates
- Utilizes two PVC Filter Cassettes without metal support screens
- Data logging for all sampling parameters at 5-min averages
- Deployable compact size and battery power allows remote use
- Flexible mounting options for rapid deployment
- Real-time particle sensor option for PM10 and PM2.5
- Directional sampling capability with optional meteorological sensor
- Sensor only mode for long term meteorological and dust surveys
- Easy data retrieval via USB flash drive
- Programmable with intuitive user interface
- Low maintenance particulate separators require no grease or oil
- Rechargeable batteries complete full charge in 1 hour
- Utilizes 47mm filter media and all PVC cassettes with no metal support screen

