Low Flow Research Sampler

The Low Flow Research Sampler is a portable, rapidly deployable, battery-powered particulate sampling device. It utilizes FRM-style impactors for improved accuracy at 6 LPM and requires no grease or oil for low maintenance use. The compact-sized sampler can be configured to collect 24-hour TSP, PM10, or PM2.5 filter samples and can simultaneously measure and log all real-time sampling parameters, meteorological data, and particulate counts.

The Low Flow Research Sampler can be equipped with an optional PEET anemometer and is capable of operating in directional sampling mode. It can also be equipped with a Plantower light scattering sensor to log temporal particulate variations. All sampling parameters, meteorological data, and particulate data are logged at 5-minute intervals and can easily be accessed via USB flash drive.

105-250 PM2.5 LFR-6 Sampler
105-100 PM10 LFR-6 Sampler
105-300 TSP LFR-6 Sampler

Specifications

Nominal Flow: 6 LPM

Flow Range: 3-10 LPM

Flow Accuracy: +/-2% Flow

Precision: +/-2%

Li-Ion Batteries: 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

ARA Instruments

Eugene, Oregon USA   541.844.1686   www.arainstruments.com

Low Flow Research Sampler

Features

- Versatile inlet configurations for PM2.5, PM10, or TSP sampling

- Cost effective at a fraction of traditional site-based FRM Samplers

- Utilizes standard 47mm FRM filter media and cassettes

- 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 battery complete full charge in 1 hour

![ARA Instruments logo]

Instruments