ARA N-FRM Sampler

The ARA N-FRM ("Near" FRM) is a portable, rapidly deployable, battery-powered particulate sampling and monitoring device. It delivers Federal Reference Method (FRM) level of performance and integrates many additional functions for unmatched versatility. The compact-sized sampler collects 24-hour TSP, PM10, or PM2.5 filter samples and can simultaneously measure local meteorological parameters. It can also be equipped with a light scattering particle sensor to log temporal particulate variations. For added versatility, the N-FRM can be operated in directional sampling mode and also has the capability of remote turn on. For more utility, the N-FRM can be operated in sensor only mode for long term collection of meteorological and particulate data.

PN 101-000 N-FRM PM2.5 Sampler
PN 102-000 N-FRM PM10 Sampler
PN 103-000 N-FRM TSP Sampler

Specifications

Flow Range: 10-20 LPM

Nominal Flow: 16.7 LPM

Flow Accuracy: +/-2% Flow

Precision: +/-2%

Li-Ion Batteries: 18V /5Ah

Recharge Time: 1-Hour

Battery Operation: 30+ hrs

Data Output: USB Flash

Dimensions: 10" x 12" x 7"

Sampler Weight: 15 LBS

Shipping Weight: 25 LBS

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Instruments

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Features

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

- FRM quality 24-hour samples at 16.7 LPM

- Cost effective at only a fraction of traditional site-based FRM samplers

- Defensible data logging capabilities for all sampling parameters

- 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

- Standard FRM 47mm filter media and cassettes

Applications

Urban Air Monitoring Networks
National Air Monitoring Networks
Roadside Air Monitoring
Industrial Perimeter Monitoring
Environmental Impact Assessments
Research Projects
Short-Term Hot Spot & Emergency Monitoring
Industrial Hygiene

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