



# ARA N-FRM Sampler

**PN 101-000** PM 2.5 Sampler

**PN 102-000** PM 10 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.

## Specifications

Flow Range: 10-20 LPM

Nominal Flow: 16.7 LPM

Flow Accuracy: +/-2% Flow

Precision: +/-1%

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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## 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

## Accessories

Real-Time Particle Sensor  
Wind Sensor  
Tripod  
Universal Mount  
Cassettes  
Cassette Separator  
Solar Panel  
FTS Flow Calibrator  
Transport Case

