

Omni™ FT - Ambient Air Sampler

BGI Omni™ FT

Ambient Air Sampler

Provides EPA Reference Method Data Quality

The US Environmental Protection Agency (EPA) encourages state and local air monitoring groups to conduct short-term multi-site pollutant monitoring studies using non-reference method, small portable samplers.

Applications

- Fence Line Monitoring
- Remediation Projects
- Saturation and Spatial Testing
- Remote Location Monitoring
- IAQ
- International Applications

Features

- miniPM™ Multi-cut Inlet, for TSP, PM₁₀, PM_{2.5} and PM₁
- Inlet is verified by Health and Safety Executive (HSE) air sampling standards for entry bias ensuring reference method data quality
- Light weight and field portable (< 5 lbs.)
- Power: AC, DC and solar
- Runs for up to 48 hours on DC power

The concept is to “saturate” an area with easily deployed, inexpensive filter samplers, to assess air quality in areas with high concentrations of pollutants or at reclamation sites. Mesa has brought this approach to its ultimate development with the addition of a true 5 liter per minute (LPM) inlet.

The additional data acquired using saturation samplers helps air pollution control agencies to evaluate their monitoring networks consistent with requirements in 40 CFR Part 58. Saturation monitoring may also be conducted to characterize the spatial distribution of pollutant concentration or to evaluate the contributions of sources in support of receptor modeling.



The Omni™ FT provides a flexible, low cost solution for TSP, PM₁₀, PM_{2.5}, PM₁ and Lead Monitoring.

Candidate U.S. EPA PM₁₀ Method

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Omni™ FT Ordering Information

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| Part # 5004: | Omni™ FT w/ miniPM™ complete for TSP, PM ₁ , PM _{2.5} , PM ₁₀ monitoring and power supply |
| Part # 5012: | Omni™ FT (Sampler Only) and power supply |
| Part # 2599: | TSP Jet for miniPM™ |
| Part # 2618: | PM ₁ Jet for miniPM™ |
| Part # 2617: | PM _{2.5} Jet for miniPM™ |
| Part # 2741: | PM ₄ Jet for miniPM™ |
| Part # 2616: | PM ₁₀ Jet for miniPM™ |
| Part # 5005: | Omni™ FT Mounting Bracket (for use on flat surface or circular dia. up to 15", 38.1 cm) |
| Part # 5006: | Omni™ FT Tripod Stand |
| Part # M-5017: | 47mm Aluminum Filter Holder |
| Part # F212: | Filter Cassette, 46.2 mm |
| Part # A2738: | DeltaCal Adapter (used to connect DeltaCal with Omni™ FT for flow calibration) |
| Part # A2739: | Tubing Adapter (used to connect a flow calibrator to Omni™ FT using tubing) |
| Part # 5013: | USB to RS232 Cable |
| Part # OM10216: | RS232 Cable w/ adapter for connection to DeltaCal |
| Part # OM10115: | Battery (Lead Acid) |

Omni™ FT Specifications

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| Flow rate: | 5 lpm (± 1%) |
| Temp. Operational Range: | -30° C to 50° C |
| Temp. Reading Range: | -30° C to 50° C (±0.5° C) |
| Barometric Pressure Range: | 400 to 800 mm of Hg (± 5mm) |
| Dimensions: | Control Module: 8.50 in high (21.59 cm) x 7.00 in. wide (17.78 cm) X 5.75 in deep (14.60 cm) Weight: 9.0 lbs (4.08 kg) |
| Inlet: | Dimensions: 3.25 in max dia, (8.25 cm) 7.5 in high (19.05 cm) Weight: 0.77 lbs (.35 kg) |