BGI OmniFT

Ambient Air Sampler

OmniFT - 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.

The OmniFT provides a flexible, low cost solution for TSP, PM_{10}, $PM_{2.5}$, PM_1 and Lead Monitoring.

Candidate U.S. EPA PM_{10} Method

Applications

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

Features

- miniPM™ Multi-cut Inlet, for TSP, PM_{10} , $PM_{2.5}$ and PM_1
- 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.

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OmniFT Ordering Information

Part # 5003:	OmniFT w/ miniPM™ set up for PM_{10} and power supply
Part # 5004:	OmniFT w/ miniPM™ complete for TSP, PM_{1}, $_{2.5}$, $_{10}$ monitoring and power supply
Part # 5012:	OmniFT (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:	OmniFT Mounting Bracket (for use on flat surface or circular dia. up to 15", 38.1 cm)
Part # 5006:	OmniFT Tripod Stand
Part # F212:	Filter Cassette, 46.2 mm
Part # A2738:	DeltaCal Adapter (used to connect DeltaCal with OmniFT for flow calibration)
Part # A2739:	Tubing Adapter (used to connect a flow calibrator to OmniFT using tubing)
Part # 5013:	USB to RS232 Cable
Part # OM10216:	RS232 Cable w/ adapter for connection to DeltaCal
Part # OM10115:	Battery (Lead Acid)

OmniFT Specifications

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)

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