

MET ONE 2100C/2200C

PORTABLE AIRBORNE PARTICLE COUNTERS



Reliable, high-sensitivity portable airborne particle counter

Features

- 0.1 micron at 1.0 CFM (2100C)
- 0.2 micron at 1.0 CFM (2200C)
- 6 particle size channels
- ISO 14644 calculations on all sizes—simultaneously
- Memory for 400 count cycles of data
- Use with PortAll™ Version 2 software

Applications

- Rapidly survey of multiple cleanroom points at a high-flow rate
- Test filters in place
- Assure quality of inert bulk gas supplies
- Confirm installation of high-purity gas lines
- Verify compliance of critical areas in electronic and semiconductor applications
- Monitor LAF benches
- Monitor production tools

The Met One 2100C and 2200C counters are reliable, lightweight and easy-to-operate. A quiet pump provides steady vacuum power at 1.0 CFM (28.3 LPM). The built-in printer allows either immediate or delayed printing of results. Additionally, using PortAll™ Version 2 software, particle counting data can be organized, archived and trended with graphs. This easy-to-use software can also be used to schedule the collection of samples by the air particle counter.

Sensitivity to 0.1 microns (2100C) or 0.2 microns (2200C) is achieved through the use of patented technology and Helium Neon (HeNe) lasers. Performance is assured to both JIS (Japanese Industrial Standard) and CE (European Community) specifications for performance and safety. The easy-to-read LED display shows particle counts in either cumulative or differential modes, as well as the values from the optional probes for humidity, temperature and air velocity. Both counters can be ordered with a filter-scanning, fan-shaped probe for quick and accurate scanning. The electronic version of the probe provides an audible and visual signal at the probe to help detect filter leaks.

Inert gases such as clean dry air (CDA) and nitrogen can be sampled with the standard counter and the optional High Pressure Diffuser. The mass flow controller option permits the sampling of Argon in addition to CDA and nitrogen. For a fixed system, the Met One 2100C or 2200C can be coupled with the Met One 2432 manifold, allowing sequential sampling of up to 32 sample points. This combination can be an independent system or part of a computer-based Facility Monitoring System (FMS).

Performance Specifications

Size Channels (μm)	2100C	6 ch	0.1, 0.2, 0.3, 0.5, 0.7, 1.0
	2200C	6 ch	0.2, 0.3, 0.5, 0.7, 1.0, 3.0, 5.0
Flow Rate	1.0 CFM (28.3 LPM)		
Flow Control	Electronic meter with rear-panel adjustment		
Vacuum Pump	Carbon-free, non-contaminating reciprocating pump		
Zero Count	Less than 1 count every 5 minutes		
Light Source	Helium Neon laser		
Display	Red LED, 7 digits		
Outputs	Built-in printer; RS-232/RS-485 Serial Interface		
Sample Time	1 second to 24 hours		
Hold (Interval) Time	1 second to 24 hours		
Alarm Counts	0 to 9,999,999		
Location Labels	0 to 999, numeric		
Count Data	Total counts, counts/ft ³ , counts/m ³		
Coincidence Loss	Less than 5% at 40,000 particles/ft ³		
ISO 14644 Calculations	Mean of averages, standard deviation, standard error, upper confidence limit		
Auto CDA Purge (2100C)	Purge solenoid activated by connection to CDA		
Data Storage	400 samples		
Power	100 VAC, 115 VAC or 230 VAC; 110 watts		
Size	34 w x 18 h x 57 d cm (13.5 x 7 x 22 inches)		
Weight	2100C	19 kg (42 lbs)	
	2200C	17.2 kg (38 lbs)	
Accessories Included	Isokinetic Probe with Tripod; Purge Filter; Printer Paper; AC Cord; Operator Manual		
When ordering, specify	Basic Sensitivity	0.1 μm (2100C) or 0.2 μm (2200C)	
	Power (AC)	100 VAC, 115 VAC or 230 VAC	
	Printer	Built-in (standard) or External (optional)	
Optional Accessories	Optional Gas Measurements	Nitrogen, Argon, Carbon Dioxide	
	Relative Humidity/Temperature Sensor		
	Air Velocity Sensor		
	Filter Scanning Probe, electronic (light and audible alarm)		
	Filter Scanning Probe, non-electronic		
	High Pressure Diffuser		
	32-port Manifold (Met One 2432)		
	PortAll Version 2 Software		
	Carrying/Shipping Case		
	Instrument Cart		



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