

Long life laser for superior performance

Model 2400/2408 Portable Airborne Particle Counters

FEATURES

- Long Life Laser technology for superior performance
- 0.3 micron at 1.0 cfm (2400)
- 0.5 micron at 1.0 cfm (2408)
- Up to 6 particle size channels
- Fed-Std-209E calculations on all sizes—simultaneously
- Memory for 400 count cycles of data—long life laser technology

APPLICATIONS

- Monitor and verify cleanrooms
- Test filters in place
- Track down particle sources
- Monitor:
 - Laminar Air Flow cabinets
 - Paint spray booths
 - Food Processing Areas
 - Hospital: Pharmacy and surgery
 - HVAC systems
 - Indoor Air Quality
 - Aerospace Assembly
 - Medical Device Assembly
 - Cleanroom Laundries



In addition to laser reliability, Met One Models 2400 and 2408 are easy-to-operate workhorses. Plus, breakthrough Long Life Laser technology extends the average service life of the instrumentation's laser to more than ten years for either model. A quiet, carbon-free pump provides steady vacuum power at 1.0 cfm (28.3 L/min). The built-in printer allows either immediate or delayed printing of results. Using Particle Vision® PortAll™ software, data can be downloaded at the operator's convenience from the 400-record buffer and displayed as a graph or a table in the built-in spreadsheet.

The bright LED display makes reading the data easy. The 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. If your task includes scanning filters, these counters can be ordered with a filter-scanning fan-shaped probe that makes this task go more quickly and accurately. The electronic version provides an audible and visual signal at the probe to help detect filter leaks.

For a fixed system, the Model 2400 or Model 2408 can be coupled with the Model 2432 manifold, allowing sequential sampling of up to 32 sample points. This combination can be an independent system or part of a computer-based FMS system.

The Model 2400 and Model 2408 offer reliability, versatility and ease-of-operation in a lightweight package. If your requirements are limited to detection of 0.5 micron and larger particles—choose the Model 2408. If you need sensitivity at 0.3 micron, then choose the Model 2400. Either choice will give you solid performance in a quiet and lightweight package.

Model 2400/2408 Airborne Particle Counters

SPECIFICATIONS

Size Channels (μm)	0.3	2 ch	0.3, 0.5
		4 ch	0.3, 0.5, 1.0, 5.0
		5 ch	0.3, 0.5, 1.0, 5.0, 10.0
		6 ch	0.3, 0.5, 1.0, 3.0, 5.0, 10.0
	0.5	2 ch	0.5, 5.0
		4 ch	0.5, 1.0, 5.0, 10.0
		5 ch	0.5, 1.0, 2.0, 5.0, 10.0
		6 ch	0.5, 1.0, 2.0, 3.0, 5.0, 10.0
Flow Rate	1.0 cfm (28.3 L/min)		
Flow Control	Electronic meter with rear panel adjustment		
Zero Count	Less than 1 count every 5 minutes		
Display	Red LED, 7 digits		
Light Source	Laser diode (10-year MTTF)		
Outputs	Built-in printer; RS232/RS485 serial interface		
Sample and Hold Times	1 second to 24 hours		
Alarm Counts	0 to 9,999,999		
Location Labels	0 to 999, appear on printout		
Count Data	Total counts, counts/ft ³ , counts/m ³		
Data Storage	400 samples		
Coincidence Loss	Less than 5% at 400,000 counts/ft ³		
FS209E/ISO 14644-I Calculations	Mean of averages; standard deviation; standard error; UCL		
Power	100 VAC, 115 VAC or 230 VAC; 110 watts		
Size	11.2" w x 6.0" h x 18" d (28.4 x 15.2 x 45.7 cm)		
Weight	24 lbs (10.9 kg)		
Environment	Operating	55 to 84°F (12 to 29°C), 20 to 95% relative humidity, non-condensing	
	Storage	-10 to 160°F (-23 to 70°C), up to 98% relative humidity, non-condensing	
Accessories Included	Isokinetic Probe with Tripod; Purge Filter; Printer Paper; AC Cord; Operator's Manual		

ORDERING GUIDE

When ordering, specify:	
Basic Sensitivity	0.3 μm (2400) or 0.5 μm (2408)
Power (AC)	100 VAC, 115 VAC or 230 VAC
Number of Size Channels	2 to 6
Printer	Built-in (standard) or External (optional)

OPTIONAL ACCESSORIES

Relative Humidity/Temperature Sensor	Filter Scanning Probe, electronic (light and audible alarm)
Air Velocity Sensor	Filter Scanning Probe non-electronic
32-Port Manifold (Model 2432)	High Pressure Diffuser
Particle Vision PortAll Software	Carrying/Shipping Case
Instrument Cart	