

# MODEL 2400 / 2408



“Flexibility and Reliability  
for sequential sampling”

In addition to laser reliability and flexibility, 2400 and 2408 are easy-to-operate. 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 for 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 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, the 2400 and 2408 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 2400 or 2408 can be coupled with the 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 2400 and 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 2408. If you need sensitivity at 0.3 micron, then choose the 2400. Both will give you solid performance in a quiet and lightweight package.

## 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
- Sequential sampling capability
- Fed-Std-209E calculations on all sizes—simultaneously

## Applications

- Monitor and verify clean rooms
- Test filters in place
- Track down particle sources
- Multi-point monitoring:
  - 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

Contact Your Local Representative ▶▶▶

[www.mgnintl.com](http://www.mgnintl.com)

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# Performance Specifications

## Size Channels ( $\mu\text{m}$ ) 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

<b>Flow Rate</b>	1.0 cfm (28.3 L/min)
<b>Flow Control</b>	Electronic meter with rear panel adjustment
<b>Zero Count</b>	Less than 1 count every 5 minutes
<b>Display</b>	Red LED, 7 digits
<b>Light Source</b>	Laser diode (10-year MTTF)
<b>Outputs</b>	Built-in printer; RS-232/RS-485 serial interface
<b>Sample and Hold Times</b>	1 second to 24 hours
<b>Alarm Counts</b>	0 to 9,999,999
<b>Location Labels</b>	0 to 999, appear on printout
<b>Count Data</b>	Total counts, counts/ft <sup>3</sup> , counts/m <sup>3</sup>
<b>Data Storage</b>	400 samples
<b>Coincidence Loss</b>	Less than 5% at 400,000 counts/ft <sup>3</sup>
<b>FS209E/ISO 14644-1</b>	Calculations Mean of averages; standard deviation; standard error; UCL
<b>Power</b>	100 VAC, 115 VAC or 230 VAC; 110 watts
<b>Size</b>	28.4 W x 15.2 H x 45.7 D cm (11.2" x 6.0" x 18")
<b>Weight</b>	10.9 kg (24 lbs)
<b>Environment Operating</b>	12 to 29°C (55 to 84°F), 20 to 95% relative humidity, non-condensing
<b>Storage</b>	-23 to 70°C (-10 to 160°F), up to 98% relative humidity, non-condensing
<b>Accessories Included</b>	Isokinetic Probe with Tripod; Purge Filter; Printer Paper; AC Cord; Operator's Manual
<b>When ordering, specify</b>	Basic Sensitivity 0.3 $\mu\text{m}$ (2400) or 0.5 $\mu\text{m}$ (2408) Power (AC) 100 VAC, 115 VAC or 230 VAC Number of Size Channels 2 to 6 Printer Built-in (standard) or External (optional)
<b>Optional Accessories</b>	32-Port Manifold (Met One 2432) Relative Humidity/Temperature Sensor Air Velocity Sensor Filter Scanning Probe, electronic (light and audible alarm) Filter Scanning Probe non-electronic High Pressure Diffuser Particle Vision PortAll Software Carrying/Shipping Case Instrument Cart

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