



## Smaller, quieter, cleaner... just plain better

### Model 2400/2408 Portable Airborne Particle Counters

#### FEATURES

- 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

#### 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



The Model 2400 and Model 2408 counters are reliable and easy-to-operate workhorses. A quiet, carbon-free pump provides steady vacuum power at 1.0 cfm (28.3 lpm). The built-in printer allows either immediate or delayed printing of results. Or, using Particle Vision™ PortAll™ software, data can be downloaded at the operator's convenience from the 400-record buffer and displayed graphically or as a table in the built-in spreadsheet.

The bright LED display makes reading the data easy and error-free. 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 fan-shaped filter-scanning 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 lpm)   |  |                               |
| 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 (30,000 hours mean time between failure)                                     |  |                               |
| 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 <sup>3</sup> , counts/m <sup>3</sup>                             |  |                               |
| Data Storage          | 400 samples  |  |                               |
| Coincidence Loss      | Less than 5% at 400,000 counts/ft <sup>3</sup>   |  |                               |
| FS209E Calculations   | Mean of averages; standard deviation; standard error; UCL                                |  |                               |
| Power                 | 100 VAC, 115 VAC or 230 VAC; 110 watts   |  |                               |
| Size                  | 11.2" wide x 6.0" high x 18" deep (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),<br>20 to 95% relative humidity, non-condensing    |                               |
|                       | Storage  | -10 to 160°F (-23 to 70°C),<br>up to 98% relative humidity, non-condensing |                               |
| Accessories Included  | Isokinetic Probe with Tripod; Purge Filter; Printer Paper;<br>AC Cord; Operator's Manual |  |                               |

### ORDERING GUIDE

|                         |  |
|-------------------------|--|
| When ordering, specify: |  |
| Basic Sensitivity       | 0.3 micron (2400) or 0.5 micron (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                      |   |



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