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

Model 2400/2408 Portable Airborne Particle Counters

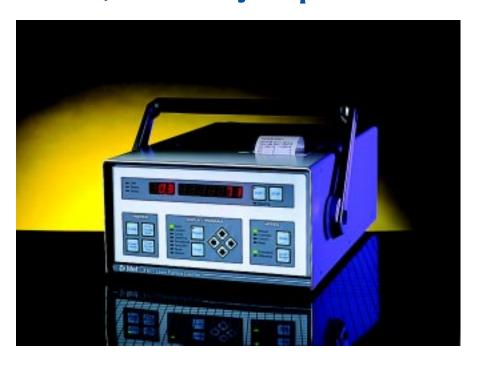
FEATURES

- 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 fanshaped 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

0.3, 0.5, 1.0, 3.0, 5.0, 10.0 6 ch

0.5, 5.0 0.5 2 ch

> 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 I 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 I second to 24 hours

Alarm Counts 0 to 9,999,999

Location Labels 0 to 999, appear on printout Count Data Total counts, counts/ft3, counts/m3

Data Storage 400 samples

Less than 5% at 400,000 counts/ft3 Coincidence Loss

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),

20 to 95% relative humidity, non-condensing

-10 to $160^{\circ}F$ (-23 to $70^{\circ}C$), Storage

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 micron (2400) or 0.5 micron (2408)

Power (AC) 100 VAC, 115 VAC or 230 VAC

Number of Size Channels

Printer Built-in (standard) or External (optional)

OPTIONAL ACCESSORIES Relative Humidity/Temperature Sensor

Air Velocity Sensor

32-Port Manifold (Model 2432) Particle Vision™ PortAll™ Software

Instrument Cart

Filter Scanning Probe, electronic (light and audible alarm)

Filter Scanning Probe non-electronic

High Pressure Diffuser Carrying/Shipping Case











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