MET ONE 2400/2408 Portable Airborne Particle Counter

Features

- Long Life Laser™ technology for superior performance
- 0.3 µm (2400) or 0.5 µm (2408) at 1.0 CFM
- Up to 6 particle size channels; sequential sampling capability
- ISO 14644-1 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
- Multi-point monitoring of LAF cabinets, cleanroom laundries, HVAC systems, food and beverage packaging, hospital pharmacies and surgery, aerospace assembly, medical device assembly

Flexibility and reliability for sequential sampling

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 MET ONE 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 MET ONE 2400 or 2408 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 FMS system. The MET ONE 2400 and 2408 offer reliability, versatility and ease-of-operation in a lightweight package. If your requirements are limited to detection of 0.5 µm and larger particles—choose the MET ONE 2408. If you need sensitivity at 0.3 µm, then choose the MET ONE 2400. Both will give you solid performance in a quiet and lightweight package.

In addition to laser reliability and flexibility, MET ONE 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 LPM). 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.

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) ±10%		
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; RS-232/RS-485 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		
ISO 14644-1 Calculations	Mean of averages; standard deviation; standard error; UCL		
Power	100 VAC, 115 VAC or 230 VAC; 110 watts		
Size	28.4 W x 15.2 H x 45.7 D cm (11.2” x 6.0” x 18”)		
Weight	10.9 kg (24 lbs)		
Environment	Operating	12 to 29°C (55 to 84°F),	
		20 to 95% relative humidity, non-condensing	
	Storage	-23 to 70°C (-10 to 160°F),	
		up to 98% relative humidity, non-condensing	
Accessories Included	Isokinetic Probe with Tripod; Purge Filter;		
	Printer Paper; AC Cord; Operator’s Manual		
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	
Optional Accessories	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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