



Battery-operated, compact portable

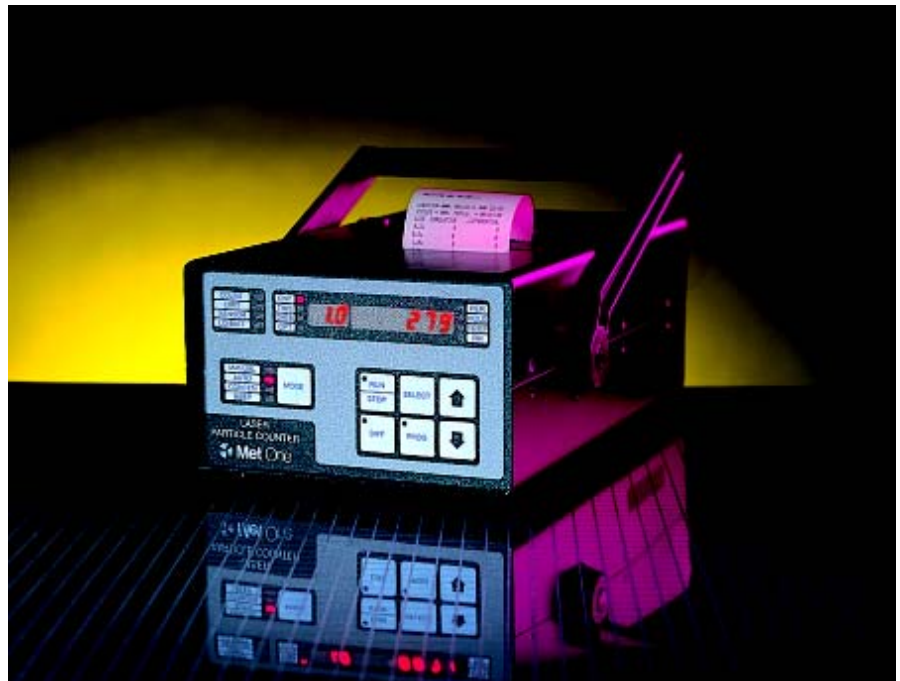
Model 237A/237B
Portable Airborne
Particle Counters

FEATURES

- AC or battery operation
- Print count results
- Choose 0.3 micron (237B) or 0.5 micron (237A)
- 0.1 cfm (2.83 L/min) flow rate
- 2 to 6 size channels
- 4 counting modes
- Spreadsheet-compatible data files with Particle Vision® PortAll™ software

APPLICATIONS

- Monitor and verify cleanrooms
- Test filters in place
- Track down particle sources
- Monitor:
 - LAF and biohazard benches
 - Cleanroom laundries
 - HVAC systems
 - Computer rooms
 - Food and beverage packaging
 - Hospitals: Pharmacy and surgery
 - Indoor Air Quality (IAQ)
 - Aerospace Assembly
 - Medical Device Assembly
 - Automotive: Paint spray booths
 - Filter performance



In the past, if you wanted six size channels or printer capabilities, you had to contend with a large, heavy counter or with external printers, cables, and cords. Now Met One gives you battery-operated portability, up to six size channels, and a built-in printer—all in one compact instrument!

The Model 237 counts airborne particles in up to six different size ranges simultaneously. Count data is displayed on the front-panel as total number of particles (cumulative count) or the particles in each size range (differential count). The printout shows cumulative and differential count data for each size range.

For maximum flexibility, four modes have been incorporated to provide quick answers to measurement questions or to allow unattended operation. The manual mode completes one count cycle then turns the air pump off to prolong battery life. Auto mode repeats the count cycle for the number of cycles programmed to allow unattended monitoring. Concentration mode gives a quick estimate (within seconds) of the particle concentration. Beep mode provides one beep after the count exceeds a selected limit, which is handy for isolating sources of particle contamination such as leaks in filter banks.

Now it is easy to carry a particle counter right to the point of interest and obtain quick, accurate results—results you can immediately print or download later using Particle Vision® PortAll™ Software. The bright LED display lets you see the data easily. The Model 237: bright display, printer and cordless operation—a real asset in any cleanroom.

Model 237A/237B Airborne Particle Counters

SPECIFICATIONS

Size Channels (μm)	237A	2 ch	0.5, 5.0
		4 ch	0.5, 0.7, 1.0, 5.0
		5 ch	0.5, 0.7, 1.0, 2.0, 5.0
		6 ch	0.5, 0.7, 1.0, 2.0, 3.0, 5.0
	237B	2 ch	0.3, 0.5
		4 ch	0.3, 0.5, 1.0, 5.0
		5 ch	0.3, 0.5, 0.7, 1.0, 5.0
		6 ch	0.3, 0.5, 0.7, 1.0, 2.0, 5.0
Flow Rate	0.1 cfm (2.83 L/min)		
Light Source	Laser diode		
Factory Calibration	Mono-dispersed polystyrene spheres (NIST traceable)		
Display	7-digit red LED		
Output	RS232C/RS485 for computer, built-in printer		
Location Labels	250, appear on printout		
Data Storage	500 samples, rotating buffer		
Sample and Hold Times	1 second to 24 hours		
Count Alarms	1 to 9,999,999, counts each channel		
Count Modes	Manual, auto, concentration, beep		
Concentration Mode	1 second samples, 1 to 10 samples averaged, display updated every second; displays counts/ft ³ , liter or counts/1000L (m ³)		
Power	AC adapter or internal battery pack		
Battery Type	Rechargeable NiCd		
Battery Recharge Time	90% in 10 hours; 100% in 12 hours		
Operating Time	4 hours with printing, 8 hours without printing		
Size	6.7" w x 4.5" h x 11.7" d (17 x 12 x 30 cm)		
Weight	6.8 lbs (3.1 kg)		
Environment	Operating	12 to 29°C (55 to 84°F), 20 to 95% relative humidity, non-condensing	
	Storage	-40 to 70°C (-40 to 160°F), up to 98% relative humidity, non-condensing	
Accessories Included	Isokinetic Probe (direct mount); Isokinetic Probe (handheld) with Tubing; Purge Filter; Printer Paper; AC Adapter; Operator's Manual		

ORDERING GUIDE

When ordering, specify:	
Basic Sensitivity	0.3 μm (237B) or 0.5 μm (237A)
Power (AC)	AC adapters for 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
 High Pressure Diffuser
 Particle Vision PortAll Software
 Carrying/Shipping Case

