

MET ONE 237A/B

PORTABLE AIRBORNE PARTICLE COUNTERS



*Simple, battery-operated,
compact and portable*

Features

- AC or battery operation
- Print count results
- 0.3 micron (237B)
- 0.5 micron (237A)
- 0.1 cfm (2.83 LPM) flow rate
- 2 to 6 size channels
- 4 counting modes
- Use with PortAll™ Version 2 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
 - Hospital pharmacies and surgery
 - Indoor air quality (IAQ)
 - Aerospace assembly
 - Medical device assembly
 - Automotive paint spray booths
 - Filter performance

Met One offers battery-operated portability, up to six size channels and a built-in printer—all in one simple, compact instrument. The Met One 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 bright LED display lets you see the data easily and the printout shows cumulative and differential count data for each size range.

The Met One 237 offers four modes to provide quick answers to measurement questions and allow unattended operation:

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| 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: | Estimates the particle concentration within seconds. |
| Beep mode: | Provides one beep after the count exceeds a selected limit, which is useful for isolating sources of particle contamination such as leaks in filter banks. |

It is easy to carry the Met One 237 counter right to the point of interest and obtain quick, accurate results that you can immediately print or download using PortAll™ Version 2 Software. Additionally, particle count data can be organized, archived and graphically trended. This easy-to-use software can also be used to schedule the collection of samples by the air particle counter. A battery charge life of up to 8 hours ensures true portability and sample collection flexibility.

Performance 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 LPM)		
	Coincidence Limit	2 million/ft ³		
	Light Source	Laser diode		
	Factory Calibration	Mono-dispersed polystyrene spheres (NIST traceable)		
Display	7-digit red LED			
Output	RS-232C/RS-485 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			
Battery Operating Time	4 hours with printing, 8 hours without printing			
Size	17 w x 12 h x 30 d cm (6.7 x 4.5 x 11.7 inches)			
Weight	3.1 kg (6.8 lbs)			
Environment	Operating	12°C to 29°C (55°F to 84°F), 20 to 95% relative humidity, non-condensing		
	Storage	-40°C to 70°C (-40°F 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 Manual			
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		
Optional Accessories	Number of Size Channels	2 to 6		
	Relative Humidity/Temperature Sensor			
	Isokinetic Probe			
	High Pressure Diffuser			
	PortAll Version 2 Software			
	Carrying/Shipping Case			



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