MET ONE 237A/237B Portable Airborne Particle Counter

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.

Features

- AC or battery operation; print count results
- 0.3 µm (237B) or 0.5 µm (237A) at 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
- Investigate particle sources
- Monitor Laminar Air Flow (LAF), biohazard benches, cleanroom laundries, HVAC systems, computer rooms, food and beverage packaging, hospital pharmacies, surgery rooms, Indoor Air Quality (IAQ), aerospace assembly, medical device assembly, automotive paint spray booths

Simple, battery-operated, compact and portable

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

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.

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 NiMH	
Battery Recharge Time	16 hours (with unit off)	
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 to 29ºC (54 to 84ºF), 10 to 80% maximum relative humidity up to 31ºC, decrease linearly to 50% at 40ºC
	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)	External AC adapter 100 to 240 VAC 50/60 Hz Output: +9 VDC, 3A
	Number of Size Channels	2 to 6
Optional Accessories	Relative Humidity/Temperature Sensor	
	Isokinetic Probe	
	High Pressure Diffuser	
	PortAll Version 2 Software	
	Carrying/Shipping Case	

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