

## Particle counting in the palm of your hand

Model 227A/227B Handheld Airborne Particle Counters

## **FEATURES**

- AC or battery operation
- 0.3 micron at 0.1 cfm (227B)
- 0.5 micron at 0.1 cfm (227A)
- Counts 2 sizes simultaneously
- Stores data from 200 locations
- · Labels data with location
- Internal rechargeable battery
- Weighs only 2.1 lbs (0.97 kg)
- Spreadsheet-compatible data files with Particle Vision<sup>®</sup> PortAll<sup>™</sup> 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



The Model 227 Portable Airborne Particle Counter offers the features and sensitivity of larger instruments and easy handheld operation. Weighing only two pounds, the Model 227 features a sensitivity of 0.3 micron (227B) or a sensitivity of 0.5 micron (227A), is fully self-contained, and uses reliable laser diode technology. It connects to a remote printer or computer, and can be part of a facility-monitoring system.

The Model 227 counts two sizes of particles simultaneously. Sample times can be set for up to 24 hours. Count data are stored in memory for easy transfer to a printer or computer. To make the most of its portability, the Model 227 features several counting modes for quick analysis of cleanroom conditions. The concentration mode gives a continuously updated approximation of the number of particles per cubic foot or per liter. The approximation is based on a user-selectable sample period of one to ten seconds. In the auto mode, it automatically takes a specified number of samples and stops, allowing unattended operation. The average mode calculates the average, minimum, and maximum count after a specified number of samples.

In beep mode, the Model 227 sounds a beep each time it counts a specified number of particles. This is useful for locating leaks in filters.

To protect your cleanroom, the Model 227 contains an exhaust filter. The pump and sensor are turned off when the battery charge drops below a safe operating level, maintaining power to preserve data stored in memory. The Met One Model 227: a handful of information.



## Model 227A/227B Handheld Particle Counters

SPECIFICATIONS	Size Channels (µm)	227A	chl	0.5
		227B	ch2 ch1 ch2	selectable=0.7, 1.0, 3.0, or 5.0 0.3 selectable=0.5, 1.0, 3.0, or 5.0
	Flow Rate Light Source Factory Calibration Display Outputs Location Labels Data Storage Sample and Hold Times	ch2 selectable—0.5, 1.0, 3.0, or 5.0 0.1 cfm (2.83 L/min) Laser diode Mono-dispersed polystyrene spheres (NIST traceable) 4-line LCD, 7 digits RS232C/RS485 for computer or printer 100, appear on printout 200 samples, rotating buffer 1 second to 24 hours		
	Count Alarms Concentration Mode	I to 9,999,999 each channel I second samples, I to 10 samples averaged, display updated every second; displays counts/ft <sup>3</sup> or liter AC adapter or internal battery pack Rechargeable NiMH 90% in 10 hours; 100% in 12 hours 8 hours continuous 4" w x 6.9" h x 2.3" d (10.3 x 17.5 x 5.9 cm) 2.1 lbs (0.97 kg) Operating 55 to 84°F (12 to 29°C), 20 to 95% relative humidity, non-condensing Storage -40 to 160°F (-40 to 70°C), up to 98% relative humidity, non-condensing Isokinetic Probe (direct mount); Purge Filter; Recharger Stand; AC Adapter; Operator's Manual		
	Power Battery Battery Recharge Time Operating Time Size Weight Environment			
ORDERING GUIDE	When ordering, specify: Basic Sensitivity Power (AC)	0.3 μm (227B) or 0.5 μm (227A) AC adapters for 100 VAC, 115 VAC, or 230 VAC		
OPTIONAL ACCESSORIES	Relative Humidity/Temperature Sensor High Pressure Diffuser Particle Vision PortAll Software Printer, external Carrying/Shipping Case			





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