

MET ONE 237H

PORTABLE AIRBORNE PARTICLE COUNTERS



Flexibility in a high-sensitivity compact portable

Features

- 0.1 micron at 0.1 CFM
- 2 to 6 size channels
- 4 counting modes
- Process gas model option
- Use with PortAll™ Version 2 software

Applications

- Monitor and verify cleanrooms
- Monitor product production process quality
- 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, surgical areas
 - Indoor air quality (IAQ)
 - Aerospace assembly
 - Medical device assembly
 - Automotive paint spray booths
 - Filter performance

The Met One 237H portable airborne particle counter offers 0.1 micron sensitivity and six size channels in a compact, battery-operated portable instrument. For process gases, such as argon and nitrogen, add the companion Met One G237H to count airborne particles. Both versions display count data on the front panel as the total number of particles (cumulative) or the particles in each size range (differential). Additionally, by using PortAll Version 2 software, 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.

The Met One 237H 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.

Get particle counting results with this convenient, compact portable, high sensitivity airborne particle counter.

Performance Specifications

Minimum Threshold Setting	0.1 μm at 50% counting efficiency
Size Channels	Configured at factory for one of the following combinations: 2 channel 0.1, 0.5 4 channel 0.1, 0.3, 0.5, 1.0 5 channel 0.1, 0.2, 0.3, 0.5, 1.0 6 channel 0.1, 0.2, 0.3, 0.5, 0.7, 1.0
Flow Rate	0.1 CFM (2.83 LPM)
Light Source	Helium Neon laser
Coincidence Loss	Less than 5% at 120,000 particles/ft ³
Factory Calibration	Mono-dispersed polystyrene spheres (NIST traceable)
False Count	Not more than one count in 5 minutes
Display	7-digit LED
Output	RS-232C/RS-485 for computer
Location Labels	250, appears on printout
Data Storage	500 samples, rotating buffer
Sample and Hold Time	1 second to 24 hours
Count Alarms	1 to 9,999,999 counts each channel
Power	5 watts, +10 V (approx.) (+6 V with battery pack)
Battery Type	Rechargeable Ni-Cd
Battery Operating Time	2 hours continuous
Size	17 w x 12 h x 30 d cm (6.7 x 4.5 x 11.7 inches)
Weight	4.5 kg (9.9 lbs)
Environment	Operating 12°C to 29°C (55°F to 84°F) 10 to 85% relative humidity, non-condensing Storage -40°C to 71°C (-40°F to 160°F) up to 98% relative humidity, non-condensing
Accessories Included	Isokinetic Probe; Operator Manual
When ordering, specify	Model A237H standard G237H for argon, nitrogen, and helium (includes flowmeter) Power (AC) 100-120 VAC or 220-240 VAC No. of Size Channels 2 to 6
Optional Accessories	Relative Humidity/Temperature Sensor Isokinetic Probe High Pressure Diffuser External Printer PortAll Version 2 Software Carrying/Shipping Case



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