

# Met One

## Air quality checks that fit your budget

### Model 228/229 Portable Airborne Particle Counters

#### FEATURES

- Portable operation allows in-place verification
- Rugged design for a variety of field operations
- Quick particle concentration readings and total counts
- Base sensitivity of 0.3 or 0.5 micron
- 2.83 L/min (0.1 cfm) flow rate

#### APPLICATIONS

- Indoor Air Quality (IAQ)
- HVAC systems
- Laminar Air Flow (LAF)
- Biohazard benches
- Cleanroom monitoring
- Cleanroom laundries
- Food and beverage packaging
- Hospital pharmacies and surgery rooms
- Medical device assembly
- Aerospace assembly
- Automotive paint spray booths



If speed, portability, and low cost describe your priorities in a particle counter, consider the Met One Model 228/229. Spot checks require little time to complete. Choose either the 228 to take a six second sample displayed in particles per liter or cubic foot, or the 229 to display the number of particles in 0.1 cubic feet of air after a one minute sample. Maximize your time and results by taking multiple readings. Better assess indoor air quality and check indoor air filter systems for pathogen-sized particles. Quickly determine the quality of HEPA filter performance.

Take the 228/229 most anywhere; at only 0.65 kg (1.5 pounds) it conveniently transports and can be used at multiple locations in the field. A rugged exterior withstands frequent use in many types of environments. Combined with an 8-hour rechargeable battery, the 228/229 meets the needs of simple, portable particle counting.

Operating the 228/229 is just as easy. Check particle counts with a single press of a button. The one-button interface and the large digital display make it ideal for the layman. Lightweight, rugged and easy to use, Met One 228/229 Portable Airborne Particle Counters are the simple cost-effective solution that will fit a variety of uses and budgets.

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## Model 228/229 Airborne Particle Counters

When the Met One 228 Particle Concentration Meter is turned on, it samples air for six seconds, then displays the number of particles per liter (or particles per cubic foot), that is, the particle concentration. The display updates every six seconds. This method has two advantages:

- Fast count results
- Direct readout of particle concentration

The Met One 229 particle counter starts counting when the power is turned on, and the display continuously updates as particles are detected. After counting for one minute, the 229 shows the count on the display until the power is turned off. This count represents the number of particles in 2.83 L/min (0.1 cfm) of air.

Both counters include a power adapter for recharging the internal batteries and a purge filter. Operating the counter with the purge filter installed in place of the isoprobe removes residual particles from the counter.

### SPECIFICATIONS

Size Channels ( $\mu\text{m}$ )	228A/229A	0.5 and larger
	228B/229B	0.3 and larger
Flow Rate	2.83 L/min (0.1 cfm)	
Light Source	Laser diode with 30,000 hours Mean Time to Failure (MTTF)	
Coincidence Loss	Less than 5% at 70,600 particles/L (2,000,000 particles/ft <sup>3</sup> )	
Display	7-digit LED	
Sample Time	228	Six seconds, updates every six seconds
	229	One minute, then holds
Power	AC adapter or internal battery pack	
Battery	Rechargeable NiMH	
Battery Recharge Time	90% in 6 hours; 100% in 9 hours	
Operating Time	8 hours continuous	
Size	10 cm wide x 19.7 cm high x 4.1 cm deep (3.9" x 7.7" x 1.6")	
Weight	0.65 kg (1.5 lbs)	
Environment	Operating	12 to 41°C (55 to 105°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); Purge Filter; AC Adapter; Operator Manual	

### ORDERING GUIDE

When ordering, specify:	
Minimum Sensitivity	0.5 $\mu\text{m}$ (228A/229A) or 0.3 $\mu\text{m}$ (228B/229B)
Power (AC)	AC adapters for 100 VAC, 115 VAC or 230 VAC
Display (228A/228B)	Particles/L or particles/ft <sup>3</sup>

### OPTIONAL ACCESSORIES

High Pressure Diffuser
Carrying/Shipping Case



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



**UK Office**

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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.