



# Handheld Particle Counter

## Full-featured and reliable

### Benefits

- Battery or AC operation
- 0.3 micron at 0.1 CFM
- Counts 6 sizes simultaneously
- Stores 500 records (with Option EX – 2,000 records)
- 75 programmable location labels
- Internal rechargeable battery
- Lightweight
- Built-in RH/Temp
- Easy download to computer
- Use with PortAll™ Version 2 software
- Network capable

### Applications

- Monitor cleanrooms
- Indoor air quality investigations
- Monitor growing rooms
- Test filter seals
- Test filter efficiency
- Track down particle contamination sources
- Monitor particle size distributions

The MET ONE HHPC-6 Handheld Airborne Particle Counter simultaneously displays six channels of particle size distribution. The MET ONE HHPC-6 holds 500 samples (2,000 with Option EX) in data memory and records date, time, counts, sample volume, temperature and relative humidity. Data is easily downloaded to a computer or printer using the included RS-232/RS-485 interface cable and utility software.

### Key features include

- Self-contained, ergonomic, easy-to-operate
- Fast, easy connection to computer or printer
- Selectable sample time, count data, programmable delay
- Set sample times to cubic feet or liters
- Data displayed in totalize or concentration modes
- Built-in, programmable alarms
- Built-in purge filter protects the cleanroom from pump exhaust
- Automatic turn-off when battery voltage drops below safe operating level
- Meets the most stringent performance standards set by the industry

With excellent features and reliability, it is easy to see why the MET ONE HHPC-6 is a winner among professionals who monitor and verify cleanrooms, test filters and track down particle source problems. The intelligent design and overall utility of the HHPC-6 is invaluable for Indoor Air Quality (IAQ) investigations, making workplace environments safer and healthier. 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.



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# Performance specifications

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<b>6 Size channels</b>	<b>Standard</b>	0.3, 0.5, 0.7, 1.0, 2.0, 5.0 $\mu\text{m}$ IAQ 0.5, 0.7, 1.0, 2.0, 5.0, 10.0 $\mu\text{m}$		
	<b>Custom</b>	0.3 to 10 $\mu\text{m}$ , 0.5 to 15 $\mu\text{m}$ or 1.0 to 20 $\mu\text{m}$		
<b>Flow rate</b>	0.1 CFM (2.83 LPM)			
<b>Light source</b>	Laser diode; index guided (26,000 MTBF at 25° C)			
<b>Calibration</b>	PSL particles in air (NIST traceable)			
<b>Counting efficiency</b>	50% @ 0.3 $\mu\text{m}$ ; 100% for particles >0.45 $\mu\text{m}$ (per JIS B9921:1997)			
<b>Zero count</b>	1 count/5 minutes (per JIS B9921:1997)			
<b>Coincidence loss</b>	5% at 2,000,000 particles/ft <sup>3</sup>			
<b>Volume options</b>	1.0 L <sup>3</sup>	21 seconds	0.01 ft <sup>3</sup>	6 seconds
	10.0 L <sup>3</sup>	3.53 minutes	1.0 ft <sup>3</sup>	10 minutes
	2.83 L <sup>3</sup>	60 seconds	0.10 ft <sup>3</sup>	60 seconds
	28.3 L <sup>3</sup>	10 minutes		
<b>Sample time options</b>	Manual	Continuously sample and display counts		
	L <sup>3</sup>	1 second (0.05 L <sup>3</sup> ) to 59:59 minutes:seconds (MM:SS) (169.85 L <sup>3</sup> )		
	ft <sup>3</sup>	1 second (0.0017 ft <sup>3</sup> ) to 59:59 minutes:seconds (MM:SS) (6 ft <sup>3</sup> )		
<b>Data storage</b>	500 sample records (rotating buffer)			
<b>Data recorded</b>	Date, time, counts, relative humidity, temperature, sample volumes, alarms, label			
<b>Display</b>	Graphic liquid crystal with back light			
<b>Alarms</b>	Counts, low battery, sensor fail			
<b>Count modes</b>	Concentration, totalize, audio			
<b>Delay time</b>	0 to 24 hours			
<b>Sample inlet</b>	Isokinetic probe			
<b>Interface</b>	RS-232 and RS-485 via RJ-45			
<b>Vacuum source</b>	Internal pump flow controlled			
<b>Housing</b>	Injection molded plastic			
<b>Dimensions</b>	11.43 w x 20.96 h x 5.72 d cm / 4.5 x 8.25 x 2.25 inches			
<b>Weight</b>	1.0 kg (2.2 lbs)			
<b>Environmental</b>	Operating 10° C to 40° C / 50° F to 104° F, 20% to 90% relative humidity, non-condensing			
<b>Storage</b>	-10° C to 50° C / 14° F to 122° F, Up to 90% relative humidity, non-condensing			
<b>Power</b>	AC adapter, 12 VDC at 2.5 A, 90 to 250 VAC, 50 to 60 Hz			
<b>Rechargeable battery</b>	NiMH, 4.8 V at 4.5 Ah; replaceable			
<b>Battery operating time</b>	8 hours continuous			
<b>Recharge time</b>	2 hours			
<b>Standards</b>	CE, JIS B9921:1997			
<b>Accessories included</b>	Certificate of calibration (NIST); Windows® compatible software download utility; DB9 to RS-232 adapter and cable; isokinetic probe; high purity tubing; 1/8 in. Hose barb adapter; power supply; operator manual			
<b>Optional accessories / Spares</b>	Zero count filter Carrying case (soft-sided or hard molded plastic) data Portable serial printer w/cable, 2 rolls paper Option EX - 2,000 records Optional particle size range - up to 20 $\mu\text{m}$ PortAll Version 2 software			

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