

# MET ONE HHPC-6 HANDHELD PARTICLE COUNTER



## *Full-featured, reliable handheld airborne particle counter*

### Features

- 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.



## Performance Specifications

<b>6 Size Channels</b>	Standard	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 $\mu\text{m}$		
	Custom	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		
	Storage	-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		



Thank you for reading this data sheet.

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



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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.