

# MET ONE 4500 SERIES REMOTE AIRBORNE PARTICLE COUNTERS



- 0.3 and 0.5  $\mu\text{m}$  sensitivity
- 0.3 to 5.0 and 0.5 to 10.0  $\mu\text{m}$  detection range
- Long Life Laser™ diode maximizes life of expensive components
- Modbus or Pulse communication protocols for ease of integration
- Worldwide service and support

## *Industry-leading reliability and performance*

Combining reliability with exceptional performance, the Met One 4500 Series is the ideal remote air particle counter for facility monitoring systems (FMS). The 4500 finds application in cleanroom monitoring, inert gas sampling and mini-environment monitoring. Ideal for electronic, life science and industrial applications, the 4500 easily integrates into many cleanroom environments, including semiconductor, hard disk drive, and flat panel display manufacturing.

Hach Ultra breakthrough Long Life Laser technology extends the average service life of the 4500's laser beyond that of any comparable unit on the market today, minimizing the hassle and cost of maintenance and operation.

The Met One 4500 was designed for seamless integration into an existing FMS with RS-422 Pulse or RS-485 Modbus communications and a RJ-45 connection. Combine the 4500 Series with Ultra Vision Online software to monitor your cleanroom from a single desktop console.

## Performance Specifications

<b>Minimum sensitivity</b> (µm)	4503	0.3
	4505	0.5
<b>Size range</b> (µm)	4503	0.3 to 5.0
	4505	0.5 to 10.0
<b>Flow rate</b>		2.83 LPM (0.1 CFM)
<b>No. of particle size channels</b>		2
<b>Channel sizes</b> (µm)	4503	0.3, 0.5, 1.0, 2.0, 3.0, 5.0
	4505	0.5, 1.0, 2.0, 3.0, 5.0, 10.0
<b>Counting efficiency</b>	4503	50% at 0.3 µm; 100% at >0.45 µm
	4505	50% at 0.5 µm; 100% for >0.75 µm
<b>Maximum concentration</b>		2,000,000/ft <sup>3</sup> at 5% Coincidence Loss
<b>Meets JIS</b>		Yes
<b>Light source</b>		Long Life Laser™ diode
<b>Communications protocol</b>		Modbus or Pulse
<b>Outputs</b>		RS-485 Modbus or RS-422 Pulse
<b>Output connection</b>		RJ-45
<b>Power</b>		9-28 VDC
<b>Vacuum requirements</b>		>18 in. Hg
<b>LED indicators</b>		Power, Calibration
<b>Enclosure</b>		Stainless Steel
<b>Weight</b>		0.35 kg (12.3 oz.)
<b>Size</b>		10.64 cm x 5.38 cm x 4.34 cm (4.19 in. x 2.12 in. x 1.71 in.)
<b>Warranty</b>	Instrument	2 years
	Long Life Laser	3 years

### Global Headquarters

6, route de Compois, C P 212,  
CH - 1222 Vérenaz, Geneva, Switzerland  
Tel ++ 41 (0)22 855 91 00  
Fax ++ 41 (0)22 855 91 99

### Americas Headquarters

481 California Avenue  
Grants Pass, Oregon 97526 USA  
Tel 1 800 866 7889 / 1 541 472 6500  
Fax 1 541 479 3057

[www.hachultra.com](http://www.hachultra.com)

