



# MET ONE 6000 Series Remote Airborne Particle Counters

High performing, reliable 0.3  $\mu\text{m}$  sensitivity remote



**BECKMAN  
COULTER**

*Life Sciences*

# The MET ONE counters are high

## High performance

0.3 µm sensitivity counter designed for ISO 21501 compliance for data accuracy and reliability

## Easy to integrate with any FMS system

Multiple communication options such as Pulse, Serial Modbus, Ethernet, wireless and Analog

## Long Life Laser™ diode

Reduces the need for replacement parts and the overall cost of ownership



Port Sizes	Model 6003	0.32 cm (1/8-inch) ID inlet	0.64 cm (1/4-inch) ID outlet
	Model 6005	0.32 cm (1/8-inch) ID inlet	0.64 cm (1/4-inch) ID outlet
	Model 6015	0.64 cm (1/4-inch) ID inlet	0.64 cm (1/4-inch) ID outlet
Flow Rate	Model 6003	0.1 CFM (2.83 LPM)	
	Model 6005	0.1 CFM (2.83 LPM)	
	Model 6015	1.0 CFM (28.3 LPM)	
Sensitivity	Model 6003	0.3 µm at 0.1 CFM (2.83 LPM)	
	Model 6005	0.5 µm at 0.1 CFM (2.83 LPM)	
	Model 6015	0.5 µm at 1.0 CFM (28.3 LPM)	
Range	Model 6003	0.3 µm to 10.0 µm at 0.1 CFM (2.83 LPM)	
	Model 6005	0.5 µm to 10.0 µm at 0.1 CFM (2.83 LPM)	
	Model 6015	0.5 µm to 10.0 µm at 1.0 CFM (28.3 LPM)	
Channel Sizes		STANDARD 2-CHANNEL	OPTIONAL 4-CHANNEL*
	Model 6003	0.3 and 0.5 µm	0.3, 0.5, 1.0 and 5.0 µm
	Model 6005 Model 6015	0.5 and 5.0 µm 0.5 and 5.0 µm	0.5, 1.0, 5.0 and 10.0 µm 0.5, 1.0, 5.0 and 10.0 µm
Counting Efficiency	Model 6003	50% (± 20%) for 0.3 µm, (100% ± 10% at 1.5 times the minimum sensitivity). Fully complies with ISO21501-4.	
	Model 6005	50% (± 20%) for 0.5 µm, (100% ± 10% at 1.5 times the minimum sensitivity). Fully complies with ISO21501-4.	
	Model 6015	50% (± 20%) for 0.5 µm, (100% ± 10% at 1.5 times the minimum sensitivity). Fully complies with ISO21501-4.	

\* Pulse models have two channels only

# 6000 series of ISO 21501 compliant are the most reliable, top performing, sensitivity remote particle counters



## ***Faster trouble shooting and reduced downtime***

*Instrument can be diagnosed for flow, sensor, communication failures, and count alarm or count alert through built-in or external light stack*

## ***Easy to install installation options and DIP switches***

*Reduces initial installation cost and subsequent reinstallation cost during routine maintenance/calibration work*

## ***Built-in flow sensor***

*Improves operational reliability during continuous monitoring*

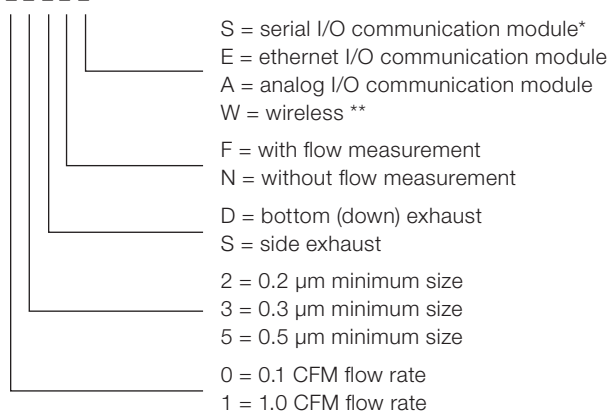
The MET ONE 6000 series remote airborne particle counter offers accurate and reliable continuous particle monitoring. With a sensitivity range of 0.3 to 10  $\mu\text{m}$ , data accuracy and repeatability through ISO 21501 compliant calibration, the MET ONE 6000 series is designed to meet the specific needs of cleanroom operations within the pharmaceutical, semiconductor, hard disk drive and flat panel display industries.

With an array of communication and mechanical installation options, the MET ONE 6000 is easy to integrate with any facility monitoring system. These features also reduce downtime for instrument removal and reinstallation during routine calibration and preventative maintenance cycles. Built with Long Life Laser™ technology, the MET ONE 6000 offers industry leading diagnostic features that reduce troubleshooting time and related downtime costs.

## Specifications

<i>Light Source</i>	Long Life Laser™ diode
<i>Weight</i>	0.82 kg (1.8 lbs)
<i>Dimensions</i>	13.56 w x 8.93 d x 12.06 h cm (5.34 x 3.52 x 4.75 inches)
<i>Enclosure</i>	304 stainless steel
<i>Status Indicator</i>	Multi-colored LED for normal status, count alarm, count alert, sensor failure, flow failure or communication failure
<i>Power Requirements</i>	9 to 28 VDC
<i>Power Consumption</i>	Serial and pulse units: 3.3 W; Ethernet unit: 4.3 W; Analog: 3.5 W; Wireless: 7.1 W. Maximum amperage requirement: 1 A
<i>Operating Temperature</i>	10 to 32 °C (50 to 90 °F), 5 to 95% relative humidity, non-condensing
<i>Storage Temperature</i>	-40 to 70 °C (-40 to 158 °F), 5 to 98% relative humidity, non-condensing
<i>Signal Output Options</i>	Pulse Analog 4–20 mA Serial RS-232 Serial RS-485 with Modbus RTU or FXB communication protocol Ethernet or Wireless with TCP/IP protocol
<i>Vacuum Requirements</i>	At least 40.6 cm (16 inches) Hg
<i>Number of Size Channels</i>	Standard 2 or Optional 4 (pulse units have 2 channels only)
<i>Flow Control</i>	Through critical orifice
<i>Coincidence Loss</i>	Model 6003/6005: 5% at 2,000,000 particles/ft <sup>3</sup> (70,600,000 particles/m <sup>3</sup> ) Model 6015: (except Pulse) 5% at 400,000 particle/ft <sup>3</sup> (14,000,000 particles/m <sup>3</sup> )
<i>False Count Rate</i>	One or less in five minutes
<i>Accessories Included</i>	DIN Rail Mounting Kit, Isokinetic Probe, Male Phoenix Terminal Strip with Cover, Operator Manual
<i>How To Order</i>	20886

20886



<i>Optional Accessories***</i>	Optional 4-Channel Setting (Pulse models have two channels only) Wall Plate Mounting Kit Utility Terminal Box Mounting Kit Purge Filters, 1.0 CFM 1/4 Tube and 0.1 CFM 1/8 Tube Isokinetic Probes, 0.1 CFM and 1.0 CFM Cable, Service Port Connector with RS-232 Converter Relative Humidity/Temperature Probe Brackets, for RH/Temp Probe and LED Indicator Stack/Isokinetic Probe Remote Indicator Light Assembly Cable Assembly, 3 m for Remote Indicator Light Assembly Cable Assembly, RJ-45 Adapter Power Supply Unit, 24 VDC @ 5.0 A, Universal Input for FMS
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- \* If a serial I/O model is ordered, a second part number 2088600-232, 2088600-485, or 2088600-PLS must be ordered that will identify the serial I/O configuration as RS-485, RS-232, or Pulse, respectively.
- \*\* Wireless models are available in limited number of countries.
- \*\*\* Contact your Hach sales representative for details.  
For a comprehensive parts and accessories list, please refer to the user manual.

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