

MET ONE 6000 Series Remote Airborne Particle Counters

High performing, reliable 0.3 µm sensitivity remote



Life Sciences

The MET ON counters hig



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 Model 6005 Model 6013 Model 6015	0.32 cm (¼-inch) ID inlet 0.32 cm (¼-inch) ID inlet 0.64 cm (¼-inch) ID inlet 0.64 cm (¼-inch) ID inlet	0.64 cm (¼-inch) ID outlet 0.64 cm (¼-inch) ID outlet 0.64 cm (¼-inch) ID outlet 0.64 cm (¼-inch) ID outlet
Flow Rate	Model 6003 Model 6005 Model 6013 Model 6015	0.1 CFM (2.83 LPM) 0.1 CFM (2.83 LPM) 1.0 CFM (28.3 LPM) 1.0 CFM (28.3 LPM)	
Sensitivity	Model 6003 Model 6005 Model 6013 Model 6015	0.3 μm at 0.1 CFM (2.83 LPM) 0.5 μm at 0.1 CFM (2.83 LPM) 0.3 μm at 1.0 CFM (28.3 LPM) 0.5 μm at 1.0 CFM (28.3 LPM)	
Range	Model 6003 Model 6005 Model 6013 Model 6015	0.3 μm to 10.0 μm at 0.1 CFM (2.83 LPM) 0.5 μm to 10.0 μm at 0.1 CFM (2.83 LPM) 0.3 μm to 10.0 μm at 1.0 CFM (28.3 LPM) 0.5 μm to 10.0 μm at 1.0 CFM (28.3 LPM)	
Channel Sizes	Model 6003 Model 6005 Model 6013 Model 6015	STANDARD 2-CHANNEL 0.3 and 0.5 μm 0.5 and 5.0 μm 0.3 and 0.5 μm 0.5 and 5.0 μm	OPTIONAL 4-CHANNEL* 0.3, 0.5, 1.0 and 5.0 μm 0.5, 1.0, 5.0 and 10.0 μm 0.3, 0.5, 1.0 and 5.0 μm 0.5, 1.0, 5.0 and 10.0 μm
Counting Efficiency	Model 6003 Model 6005 Model 6013 Model 6015	50% (± 20%) for 0.5 μm, (1009 50% (± 20%) for 0.3 μm, (1009	$6 \pm 10\%$ at 1.5 times the minimum sensitivity). Fully complies with ISO21501-4. $6 \pm 10\%$ at 1.5 times the minimum sensitivity). Fully complies with ISO21501-4. $6 \pm 10\%$ at 1.5 times the minimum sensitivity). Fully complies with ISO21501-4. $6 \pm 10\%$ at 1.5 times the minimum sensitivity). Fully complies with ISO21501-4.

* Pulse models have two channels only

IE 6000 series of ISO 21501 compliant are the most reliable, top performing, gh 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 status light

Easy installation options

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 or 0.5 to 10 µm, 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

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Specifications			
Light Source	Long Life Laser™ diode		
Weight	0.82 kg (1.8 lbs)		
Dimensions	13.56 w x 8.93 d x 12.06 h cm (5.34 x 3.52 x 4.75 inches)		
Enclosure	304 stainless steel		
Status Indicator	Multi-colored LED for normal status, count alarm, count alert, sensor failure, flow failure or communication failure		
Power Requirements	9 to 28 VDC		
Power Consumption	Serial and pulse units: Wireless:	3.3 W; Ethernet unit: 4.3 W; Analog: 3.5 W; 7.1 W. Maximum amperage requirement: 1	
Operating Temperature Storage Temperature	10 to 32 °C (50 to 90 °F), 5 to 95% relative humidity, non-condensing -40 to 70 °C (-40 to 158 °F), 5 to 98% relative humidity, non-condensing		
Signal Output Options	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 At least 40.6 cm (16 inches) Hg		
Vacuum Requirements			
Number of Size Channels		(pulse units have 2 channels only)	
Flow Control	Through critical orifice	E_{0}^{0} at 0.000 000 mentioles (1) ²	
Coincidence Loss	Model 6003/6005:	5% at 2,000,000 particles/ft ³	
	Madal 6010/0015	(70,600,000 particles/m ³)	
	Model 6013/6015:	5% at 400, 000 particle/ft ³	
False Or at Dat	(except Pulse)	(14,000,000 particles/m ³)	
False Count Rate	One or less in five minutes		
Accessories Included	DIN Rail Mounting Kit, Isokinetic Probe, Male Phoenix Terminal Strip with Cover, Operator Manual		
How To Order		np with Cover, Operator Manual	
How To Order	20886		
		S = serial I/O communication module*	
		E = ethernet I/O communication module	
		A = analog I/O communication module	
		W = wireless **	
		F = with flow measurement	
		N = without flow measurement	
		D = bottom (down) exhaust	
		S = side exhaust	
		$3 = 0.3 \mu\text{m}$ minimum size	
		$5 = 0.5 \mu\text{m}$ minimum size	
		0 = 0.1 CFM flow rate	
		1 = 1.0 CFM flow rate	
Optional Accessories***		ng (Pulse models have two channels only)	
	Wall Plate Mounting Kit		
	Utility Terminal Box Mount	6	
	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 VD	C @ 5.0 A, Universal Input for FMS	
-br	If a parial 1/0 madel :	a accord part number 0000000 000	
*		, a second part number 2088600-232, S must be ordered that will identify the serial	
	I/O configuration as RS-485, F	RS-232, or Pulse, respectively.	
**	I/O configuration as RS-485, F Wireless models are available	in limited number of countries.	
	I/O configuration as RS-485, F Wireless models are available Contact your Hach sales repre	in limited number of countries.	

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Regular customer information

by post and email.

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