

MET ONE 3400 Series Portable Airborne Particle Counter

21 CFR Part 11 electronic records from the counter via WiFi



CHARACTERIZED
by ingenuity.

 **BECKMAN
COULTER**
Life Sciences

MET ONE 3400 SERIES IS THE FASTEST AND EASIEST-TO-USE AIRBORNE PARTICLE COUNTER, SAVING HOURS OF VALUABLE OPERATOR TIME

Intuitive user interface

Easy area, location, operating parameter configuration and replication

Sampling Plan Wizard

ISO 14644 and Annex 1 compliance in a few clicks

21 CFR Part 11 compliance

Paperless secure data transfer

Unit-to-unit accuracy and reproducibility

Assured through ISO 21501 compliance



The new enhanced MET ONE 3400 Series is the easiest-to-use and easiest-to-integrate portable particle counter for any facility or environmental monitoring programme. It is easy to setup the MET ONE 3400 for routine sampling through the use of software wizards that guide the analyst to configure the instrument for ISO14644, EU GMP Annex 1 and other common regulatory sampling requirements. Once setup, the instrument is easy-to-use through one-touch sampling and location identification, saving technicians valuable time and reducing potential errors between sampling points.

Once the programming has been established for your first count, it is easy to replicate. Simply copy the complete configuration to a USB stick and transfer the new settings to the next unit. This allows you to quickly and easily create a fleet of particle counters, all alike. And, because all our counters are ISO 21501 compliant, you can be assured that all your instruments will count with the same accuracy and reproducibility.

MET ONE 3400 SERIES

PORTABLE AIRBORNE
PARTICLE COUNTER



5

OPC Server enables open communication architecture

Industry standard connectivity to data management software

6

Flexible communications

Wireless, Ethernet, Serial and USB

7

Long continuous operation

Dual hot-swappable batteries

8

Optional 100 LPM flow rate

One m³ sampling in just 10 minutes

What's more, with flexible communications options such as Ethernet and 802.11 wireless and an open communications architecture, the MET ONE 3400 may be seamlessly integrated into any facility monitoring or central data management system, so eliminating the need for manual record keeping.

The MET ONE 3400 Series is available in 1 CFM, 50 LPM and now 100 LPM flow rates. The new 100 LPM MET ONE 3445 takes just ten minutes to collect 1 m³ samples required to certify Grade A areas per the EU GMP Annex 1 guidance.

The new MET ONE 3400 is faster, easier-to-use and more reliable than ever before.



Specifications

Standard Size Channels	3413 and 3423	0.3, 0.5, 1.0, 3.0, 5.0, 10.0* μm
	3415 and 3425	0.5, 1.0, 2.0, 3.0, 5.0, 10.0 μm or 0.5, 1.0, 2.0, 3.0, 5.0, 25.0* μm
	3445	0.5, 1.0, 2.0, 3.0, 5.0, 10.0 μm
Flow Rate	3413 and 3415	28.3 LPM (1.0 CFM) $\pm 5\%$ (default factory setting)
	3423 and 3425	50 LPM (1.77 CFM) $\pm 5\%$ (default factory setting)
	3445	100 LPM (3.53 CFM) $\pm 5\%$ (default factory setting)
Zero Count Coincidence Loss	Conforms to JIS B9921. 1 count or less in 5 minutes, 95% confidence level	
Counting Efficiency	28.3 LPM (1.0 CFM)	5% at 14,126,000 particles/ m^3 (400,000 particles/ ft^3)
	50 LPM (1.77 CFM)	5% at 4,000,000 particles/ m^3 (113,266 particles/ ft^3)
	100 LPM (3.53 CFM)	10% at 10,000,000 particles/ m^3 (283,166 particles/ ft^3)
Light Source	3413 and 3423	50% $\pm 20\%$ for 0.3 μm , (100% $\pm 10\%$ at 1.5 times the minimum sensitivity), fully complies with ISO 21501-4
	3415, 3425 and 3445	50% $\pm 20\%$ for 0.5 μm , (100% $\pm 10\%$ at 1.5 times the minimum sensitivity), fully complies with ISO 21501-4
Pump Type	Long Life Laser™ diode with 10-year Mean Time To Failure (MTTF)	
Count Display	Air vacuum, rated for continuous use	
Interface	Colour 1/4 VGA TFT Touch Screen	
Sample/Hold/Delay Times	Windows CE®-based	
Count Alarms	1 second to 23 hours 59 minutes 59 seconds	
Count Cycles	1 to 9,999,999 counts	
Manifold	Up to 100 while in automatic mode	
Location Labels	3411, 3413 & 3415 support 3432 32-port Manifold System	
Data Storage	0 to 999, appears on printout	
Communication Interfaces	5,000 samples, scrollable on Historical Data review screen	
Communication Protocol	RS-232, RS-485, 802.11 b/g Wireless, 802.3 Ethernet, USB Client (Version 1.1), USB Host (Version 1.1)	
Battery Type	Modbus TCP, Modbus RTU, Serial FX	
Operating Time (Battery)	Lithium ion smart battery; rechargeable, ejectable and hot-swappable	
Battery Recharge Time	28.3 LPM (1.0 CFM) and 50 LPM (1.77 CFM)	up to 6 hours**
Power	100 LPM (3.53 CFM)	up to 3 hours**
Size Dimensions	6.75 hours minimum, 10 hours maximum	
Weight (without battery)	24 VDC 3.2 A with 100-240 VAC 50/60 Hz adapter (included in ship kit)	
Enclosure Material Environment	3413 and 3415	31.8 W x 25.4 D x 20.3 H cm (12.5 x 10 x 8 inches)
	3423 and 3425	7.55 kg (16.6 lbs)
	3445	8.33 kg (18.3 lbs)
Warranty	8.65 kg (19.0 lbs)	
	Stainless Steel	
Accessories Included	Operating	0 to 40° C (32 to 104° F), 10 to 90% relative humidity, non-condensing
	Storage	-40 to 50° C (-40 to 122° F), 0 to 98% relative humidity, non-condensing
Options	1 year (instrument), 3 years (Long Life Laser diode)	
	Zero Count Filter	
Options	Flash Memory Drive	Isokinetic Probe (aluminum)
	Operator Manual	PortAll 2.4 Trial Software
	Wireless Option	10 Feet Non-Kink Hytrel® Tubing
	Air Velocity Sensor	Relative Humidity/Temperature
	Smart Battery Charger	Hard Carrying Case
	High Pressure Diffuser	Isokinetic Probe (stainless steel)
		Filter Scanning Probe
		USB to RS-485 or USB to RS-232 Converter
		MET ONE 3432 32-Port Manifold

* Channel selections can be selected at time of order in a range from 0.3 μm to 25 μm . However 0.3 μm and 25 μm cannot be configured together.

** Battery life is based on typical usage.



Contact us to place an order, request information or receive technical support.



Service packages and extended warranty up to 5 years.



On site technical support.



Seminars and workshops: Practical and hands on training.



Regular customer information by post and email.



www.particle.com up to date and secure, with downloads, information and e-shop.

For more information, please contact:



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