Met One

Faster, easier sampling and contamination control

3400 Series Portable Airborne Particle Counters

FEATURES

- 28.3 or 50 L/min
 (1.0 or 1.77 cfm) flow rates
- 0.3 or 0.5 micron minimum sensitivity
- 6 particle size channels
- Long Life Laser[™] technology for superior performance
- Hot-swappable batteries with 7-hour operation
- Easy-to-use touchscreen
- Stainless steel enclosure
- USB connectivity for data download
- Supports 21 CFR Part 11 compliance with PortAll Version 2 for Life Science

APPLICATIONS

- Monitor and verify cleanrooms
- Test filters
- Track down particle sources
- Validate compliance with regulations
- Manage contamination control for manufacturing processes

16 minutes and counting

Here's how to save sampling time with the 3423/3425's faster flow rate:

Sample: 1 m³ 28.3 L/min 50 L/min Time Savings

36 minutes 20 minutes 16 minutes

Consider the number of times you sample in a day and multiply by 16 for your daily time savings!

Save time and resources every time you sample.



Met One 3400 Series Airborne Particle Counters offer faster sampling and simple portability for ease of use and reduced technician time. Lightweight and compact, the instrument features strategically-placed handles for easy lifting: two on the sides and one on the front. Position the 3400 either vertically or horizontally. Most importantly, dual hot-swappable batteries minimize downtime for seamless operation.

For data entry and management, the 3400's color, high-contrast touch screen facilitates operation and viewing from a greater distance in different lighting and at different angles. An intuitive, icon-driven operating system with touch commands further simplifies the count collecting process. Transfer data quickly from the 3400 via the conveniently-located USB port and flash drive or print results immediately from the built-in printer.

Built with Long Life Laser technology, the 3400 performs reliably, promoting low cost long-term ownership. For environments concerned with viable organisms, stainless steel construction and unobstructed surfaces permit quick and frequent wipe downs. The 3400 interfaces with PortAll Version 2 software to support 21 CFR Part 11 compliance, remote scheduling and data download. The software also conducts rapid pass/fail reporting and provides the necessary regulatory documentation for ISO, FDA and EU compliance.



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3400 Series Airborne Particle Counters

SPECIFICATIONS	Size Channels (µm)	3413 and 3423:	0.3, 0.5, 1.0, 3.0, 5.0, 10.0*	
		3415 and 3425:	0.5, 1.0, 2.0, 3.0, 5.0, 25.0*	
	Flow Rate	3413 and 3415:	28.3 L/min (1.0 cfm)	
		3423 and 3425:	50 L/min (1.77 cfm)	
	Zero Count		nt or less in 5 minutes, 95% confidence level	
	Coincidence Loss	28.3 L/min (1.0 cfm):	5% at 14,126,000 particles/m ³ (400,000 particles/ft ³)	
		50 L/min (1.77 cfm):	5% at 4,000,000 particles/m ³ (113,266 particles/ft ³)	
	Counting Efficiency	50%		
	Light Source		e with 10-year Mean Time To Failure (MTTF)	
	Pump Type	Air vacuum, rated for co		
	Count Display	Color 1/4 VGA TFT Touc	ch Screen	
	Interface	Windows CE [®] -based		
	Maximum Count	9,999,999 displayed		
	Sample/Hold/Delay Times	Sample Time:	1 second to 23 hrs 59 min 59 sec	
		Hold/Delay Times:	0 second to 23 hrs 59 min 59 sec	
	Count Alarms	1 to 9,999,999 counts		
	Count Cycles	Up to 100 while in autor		
	Location Labels		0 to 999, appears on printout	
	Data Storage	5,000 samples, scrollab		
	Outputs		, USB Host (Version 1.1)	
	Battery Type		y; rechargeable, ejectable and hot-swappable	
	Quantity Included	1		
	Operating Time (Battery)	28.3 L/min (1.0 cfm):	6 hours**	
		50 L/min (1.77 cfm):	7 hours**	
	Battery Recharge Time	6.75 hours minimum, 10		
	Power	100-240 VAC, 50/60 Hz		
	Size Dimensions	31.8 W x 25.4 D x 20.3 H		
	Weight (without battery)	3413 and 3415:	6.58 kg (14.5 lbs)	
		3423 and 3425:	7.35 kg (16.2 lbs)	
	Battery Weight	0.66 kg (1.45 lbs)		
	Enclosure Material	Stainless steel		
	Environment	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	
	Warranty	2 years (instrument), 3 years (Long Life Laser diode)		
	Accessories Included	Isokinetic Probe (alumin	,	
		PortAll Version 2 Trial Sc	,	
		AC Power Cord	Nozzle Cleaning Brush	
		2 Rolls Printer Paper	Operator Manual	
			ytrel [®] Tubing (3413 and 3415)	
ORDERING GUIDE	When ordering apositiv	1.27 cm (0.5) 1.D. Hytre	I Tubing (3423 and 3425)	
ORDERING GOIDE	When ordering, specify: Basic Sensitivity	$0.3 \mu m (3.113 \text{ or } 3.123)$	$r 0.5 \mu m (3/15 \text{ or } 3/25)$	
	Optional Upgrade		0.3 μm (3413 or 3423) or 0.5 μm (3415 or 3425) 0.3 to 25.0 μm*	
	Flow Rate		13 or 3415) or 50 L/min (1.77 cfm) (3423 or 3425)	
	Tiow Hate	20.0 E/min (1.0 Cim) (04	13 01 34 13) 01 30 E/1111 (1.77 Citti) (3423 01 3423)	
OPTIONAL	Relative Humidity/Temperature	Sensor	Flash Memory Drive	
ACCESSORIES/	Air Velocity Sensor	001301	Lithium Ion Smart Battery	
SPARES	Isokinetic Probe (stainless steel)		Smart Battery Charger	
JFAREJ	High Pressure Diffuser	9	PortAll Version 2 Software	
	Filter Scanning Probe, non-elec	tronic	Case with Wheels and Foam Insert	
	Zero Count Filter		Recommended Spares Kit	
	0.825 cm (0.325") I.D. Hytrel Tubing (3413 and 3415)		Validation Protocol	
	1.27 cm (0.5") I.D. Hytrel Tubing (3423 and 3425)			
SERVICE	Comprehensive local and onsite Hach Ultra service programs with multiple field service offices and authorized			
	distributors available throughout the world. Contact your representative for additional information.			
	* Channel selections can be selected at	time of order in a range from 0.3 un	n to 25 µm. However 0.3 µm and 25 µm cannot be configured together.	
			sampling for 20 minutes (1 m ³) sample, print record, a 5 minute hold time	

** Battery life is estimated with the following conditions: The 1.77 cfm unit sampling for 20 minutes (1 m³) sample, print record, a 5 minute hold time (simulating move to new location), then repeating this cycle. The backlight sleep time is set at 2 minutes. For the 1.0 cfm unit, the sample time is set at one minute, print record, then repeat this cycle. The backlight would remain on at all times.





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