

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 m ³	
28.3 L/min	36 minutes
50 L/min	20 minutes
Time Savings	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.

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	Conforms to JIS. 1 count 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 (200,000 particles/ft ³)
	Counting Efficiency	50% for 0.3 µm (3413); 50% for 0.5 µm (3415)	
	Light Source	Long Life Laser™ diode with 10-year Mean Time To Failure (MTTF)	
	Pump Type	Air vacuum, rated for continuous use	
	Count Display	Color 1/4 VGA TFT Touch 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 automatic mode	
	Location Labels	0 to 999, appears on printout	
	Data Storage	5,000 samples, scrollable on front panel	
	Outputs	USB Client (Version 1.1), USB Host (Version 1.1)	
	Battery Type	Lithium ion smart battery; rechargeable, ejectable and hot-swappable	
	Quantity Included	1	
	Operating Time (Battery)	7 hours**	
	Battery Recharge Time	6.75 hours minimum, 10 hours maximum	
	Power	100-240 VAC, 50/60 Hz	
	Size Dimensions	31.8 W x 25.4 D x 20.3 H cm (12.5" x 10" x 8")	
	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
	Accessories Included	Isokinetic Probe (stainless steel)	Zero Count Filter
		PortAll Version 2 Trial Software	Flash Memory Drive (64 MB)
		AC Power Cord	Nozzle Cleaning Brush
		2 Rolls Printer Paper	Operator Manual
		0.825 cm (0.325") I.D. Hytrel® Tubing (3413 and 3415)	
		1.27 cm (0.5") I.D. Hytrel Tubing (3423 and 3425)	

ORDERING GUIDE	When ordering, specify:	
	Basic Sensitivity	0.3 µm (3413 or 3423) or 0.5 µm (3415 or 3425)
	Optional Upgrade	0.3 to 25.0 µm*
	Flow Rate	28.3 L/min (1.0 cfm) (3413 or 3415) or 50 L/min (1.77 cfm) (3423 or 3425)

OPTIONAL ACCESSORIES/ SPARES	Relative Humidity/Temperature Sensor	Flash Memory Drive (64 MB)
	Air Velocity Sensor	Flash Memory Drive (128 MB)/Stylus Combination
	Isokinetic Probe (stainless steel)	Lithium Ion Smart Battery
	High Pressure Diffuser	Smart Battery Charger
	Filter Scanning Probe, non-electronic	PortAll Version 2 Software
	Zero Count Filter	Carrying/Shipping Case
	0.825 cm (0.325") I.D. Hytrel® Tubing (3413 and 3415)	Recommended Spares Kit
	1.27 cm (0.5") I.D. Hytrel Tubing (3423 and 3425)	Validation Protocol

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 µm to 25 µm. However 0.3 µm and 25 µm cannot be configured together.
 ** 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.

