



BioAerosol Monitoring System



- Real-time, continuous airborne microbial monitoring
- No need to incubate; Immediate result



Features

- Real-time, continuous airborne microbial monitor
- Certified ISO particle detector
- Most efficient, user-oriented design
- First truly portable microbial monitor



Application



Alerts

Provides real-time continuous data with alert capabilities when counts surpass an acceptable level. Instant alerts reduce the risk of product loss.



Process & Training

BAMS real-time results are a perfect training aid to drive immediate technique correction and process improvement.



Trends

Given delays and time lapses inherent to compendial testing methods, trend analysis is all but prohibited. BAMS changes that.



Root Cause

Provides real-time continuous data to help with root cause identification of contamination. Alerts in time to reduce the risk of product loss.



Sterility Test Isolators

BAMS enables enhanced coordination and control of sterility test isolators.



Fill Line Quality

BAMS real-time continuous monitoring helps to ensure the cleanliness of this crucial quality environment.



Wait Time vs. Real Time

Current airborne microbial monitoring uses interval, ad-hoc and event-driven sample collections, which require incubation. This process takes 1-7 days to generate test results, delaying and, at best, inhibiting, contamination root cause identification. This also does little, if anything, to prevent major production scrappage.

The current monitoring process also requires managing complex collection and manual growth examination schedules for thousands, even tens of thousands, of air samples per month. This is expensive, requiring significant labor and material costs.



Testing Aspect	Compendial Method	BAMS benefits
Time to Results	• I-7 days	Immediate
	More scheduled/unscheduled breaks	Likely contamination identification
	• Unlikely contamination identification	
	• Increased cost and inefficiency risks	
Detection Frequency	Sampled monitoring	Continuous monitoring
	Reduced accuracy	• Rend data and improved analysis
	Limited trending	Reduced contamination and
	Greater contamination risk	production loss risks
	Greater risk of production loss	
Coordination	Resource intensive	Minimal costs and resources
	Higher labor costs	Immediate and online
	• Time delays	

Increased Control The Latest Technology

BAMS was designed to meet exacting, pharmaceutical manufacturing standards while providing real-time data for immediate action and catastrophic loss avoidance. It was also designed for end-users. Small. Light. Easy to use.

Optical Sensor Technology

BAMS' principle of operation is the simultaneous measurement of an individual particle's size and its ultravi-olet (UV)-induced intrinsic fluorescence signal:

• Particle sizing is possible through the widely utilized principle of Mie Scattering.

• Simultaneously, the instrument detects the presence or absence of the intrinsic fluorescence of certain metabolites that indicate biologic activity.

Specification Sheet

Specification	BioAerosol Monitoring System BAMS	Specification	BioAerosol Monitoring System BAMS	
Size range	0.5µm to 25µm	Export file	PDF file or EXCEL file	
Size channels	0.5µm,1.0µm,2.0µm,3.0µm, 5.0µm,10.0µm	Data storage	I I 9GB	
Laser source	Long life laser	Data security	Authority management, authority level divide into admin, operator and supervisor	
Size resolution	<15% @ 0.5µm (meets ISO 21501-4)	Data reliability	Compliant with 21 CFR Part I I	
Count efficiency	50%±20% for 0.5μm,100%±10% for >0.75μm (meets ISO 21501-4 and JIS B9921)	Print	Auto or Off-line	
Flow rate	2.83LPM ±3%	Dimensions	10(H) x 7.87 (W) x 10.39(D) in	
Flow rate		(HxWxD)	255(H) × 200(W) × 264(D) mm	
control	Electronic, automatic closed-loop		(with handle and foot mat)	
Sampling time		Weight	12.8lbs/5.8kg;14.9lbs/6.8kg (incl. battery)	
	10 seconds-168 hours	Enclosure	316L Stainless Steel and anodized aluminum	
Delay	0-99 hours 59 minutes 59 seconds	Power	AC 100-240V, 50 Hz/60 Hz	
Cycles	1000 samples on one location	Battery	10.8V, 9000mAhX2,	
Interval	5 seconds-99 hours 59 minutes 59 seconds	Battery	rechargeable lithium battery	
	Manual, auto, cumulative count Σ / differential	Operating	Temperature: 5°C-35°C/41°F-95°F	
Sampling mode	count Δ or concentration	conditions	Relative humidity: 5-90%, non-condensing	
Zero count	<1count/5min	Storage	Temperature: 0°C-40°C/32°F-104°F	
Concentration limit	4,000,000 particles/ft ³ @10% coincidence loss	conditions	Relative humidity: 5-90%, non-condensing	
Exhaust	Internal HEPA filter (>99999%@0.3μm)	Calibration	Once a year	
Display	8.0" LCD capacitive touch screen	frequency		
Language	English, Chinese	Warranty	12 months (calculated from the date of product activation or six months after the date of manu-	
Communication	RJ45, USB, SENSER-HUB, WIFI		facture, whichever comes first).	
Alarm	Audible built-in alarm		EN 61010-1:2010+A1:2019,	
Capture of	Connect the BioAerosol Sampler(BAS)		EN 61326-1:2013, EN 61326-2:2:2013,	
biological	via WIFI/USB to collect the biological	Salety	EN 60825-1:2014, EN 61000-6-1:2007,	
contamination	contamination sample in real time		EN 61000-6-3:2007+A1,	
sample			EN 62311:2008, EN 62479: 2010	
Reports	Compliant with ISO/EUGMP/CHINESEGMP/Fed Std			

Ordering Information

Name	Model	Order No.
BioAerosol Monitoring System BAMS	M120	MACHM120

PMT reserves the right to change specifications without notice. Contact : info@pmt.eu or your local distributor for more details Certified with:



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