

# BAS-PRO

## BioAerosol Sampler-Professional



### CAPABILITY & FEATURE

- Highly portable, impaction based microbial air sampler
- 28.3LPM, 100LPM, 200LPM low rate pre-selectable
- Built in, high efficiency exhaust air filter
- Complies with ISO 14698-1 and meets EU GMP Annex I

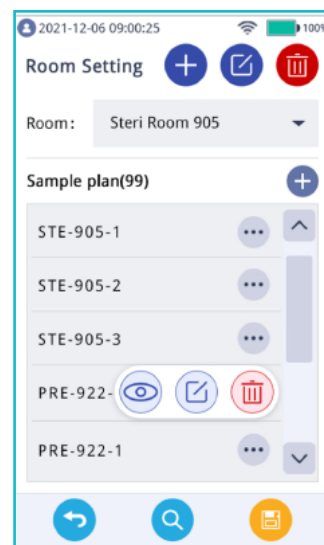
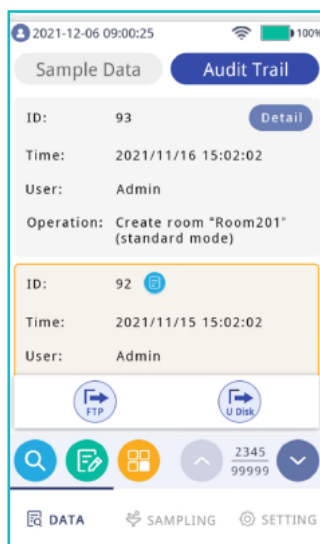
## PRODUCT INTRODUCTION

- Sealed 316L stainless steel enclosure protects against moisture, dust and chemical ingress, resistant to disinfectants commonly used in cleanrooms.
- Based on the principle of Andersen impact method, air is impacted on the agar surface through the perforated cover at a speed of nearly 21m/s.
- In the event that there's a change in inlet pressure or resistance, built-in high precision mass flowmeter that will detect the air flow automatically and adjust the blower speed in real-time with millisecond frequency to ensure  $\pm 4\%$  (28.3L/min) ,  $\pm 2.5\%$ (100L/min) and  $\pm 3\%$  (200L/min) flow accuracy.
- Built in HEPA filtered exhaust prevents re-contamination from the environment to the end product.

## SAMPLING

### DISTINCT AND DIRECT

- Small size, easy to carry and place
- 5.0 "Rapid response touch screen
- Intelligent sampling mode enables continuous, cyclic and remote sampling



## DATA

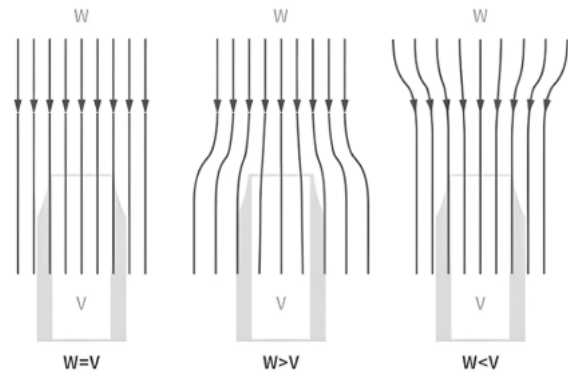
### SIMPLE AND FLEXIBLE

- Available audit trails provide a record of all critical events that occur on the instrument.
- One-click report export and printing.
- Wireless connection with the APC and BAMS to support automatic sampling.

## PRODUCT APPLICATION

### ISOKINETIC SAMPLING

When performing isokinetic sampling, the sampler is designed so that the airflow direction into the inlet of the sampling head is consistent with the average velocity of the unidirectional flow through the sampling head.



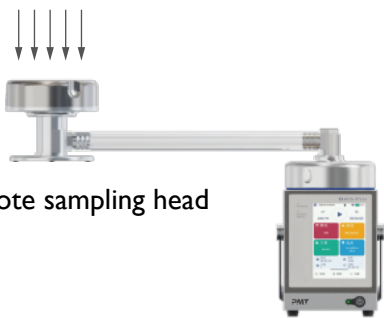
The flow velocity above the sampling head is 0.4m/s, consistent with isokinetic sampling.

V=Sampling speed of sampling head

W=Speed of unidirectional flow

### REMOTE SAMPLING (UP TO 8M)

Used for sampling in an isolator, biological safety cabinet, horizontal laminar flow clean workbench and other significant zones.



Remote sampling head

Vertical flow sampling

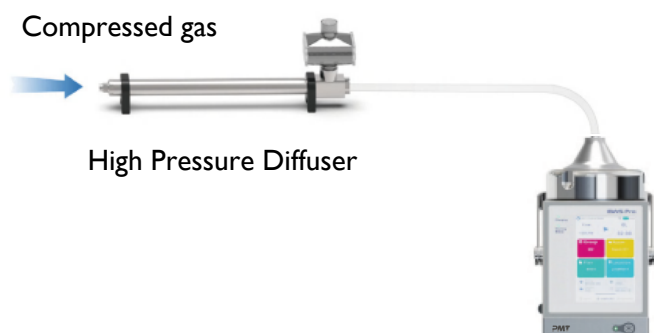


Remote sampling head

Horizontal flow sampling

### COMPRESSED GAS SAMPLING

Compressed gas is decompressed to atmospheric pressure by the High Pressure Diffuser (HPD) and transported to the BioAerosol Sampler-Professional for sampling.



Compressed gas

High Pressure Diffuser

## SPECIFICATION SHEET

Specification		BioAerosol Sampler-Professional   BAS-Pro		
Flow	28.3L/min ±4%	100L/min ±2.5%	200L/min ±3%	
Flow rate control	Built-in mass flow meter			
Sampling plan	20,000 groups, 20,000 rooms, 500 locations for each room, up to 20,000 locations			
Sampling volumes	1-6,000L			
Delay	0-23 hours 59 minutes 59 seconds			
Cycles	1-999 cycles			
Interval	00:00:00, 00:00:05-23 hours 59 minutes 59 seconds			
Sampling head	Φ 0.32 mm*280 holes (28.3LPM)	Φ 0.60 mm*280 holes (100LPM)	Φ 0.70 mm*400 holes (200LPM)	
	Anodized Aluminum (316L stainless steel available, customizable sampling head)			
D50	0.79µm (28.3LPM; Φ 0.32 mm*280 holes); 1.08µm (100LPM; Φ 0.60 mm*280 holes); 1.15µm (200LPM; Φ 0.70 mm*400 holes)			
HEPA	Exhaust HEPA filter efficiency > 99.999% @ 0.3µm			
Weight / Dimensions (HXWDXD)	Weight: 3.6kg(7.9lbs)(with battery); Battery weight: 0.3Kg(0.7lbs); Dimensions: 186×115×204mm; 7.32×4.53×8.04in(without footmat)			
External surface	316L stainless steel			
Power	AC 100-240V, 50 Hz/60 Hz			
Battery	10.8V, 6800mAh rechargeable lithium battery			
	Battery last ≥7 hours (28.3LPM)	Battery last ≥7 hours (100LPM)	Battery last ≥3 hours (200LPM)	
Communication	USB, WIFI			
Application extension	Wireless connection with the APC and BAMS to support triggered sampling			
Data storage	20,000 sets of records			
Alarm	LED lighting and beep			
Display	5" capacitive touch screen			
Language	English, Chinese			
Calibration frequency	Annual calibration is recommended			
Operation conditions	Temperature: 5°C-35°C(41°F-95°F), 5-90% RH non-condensing			
Storage conditions	Temperature: 0°C-40°C(32°F-104°F), 5-95% RH non-condensing			
Safety	EN 61010-1:2010+A1:2019, EN 61326-1:2013, EN IEC 61326-1:2021, EN 61000-6-1:2007, EN 61000-6-3:2007+A1			
Warranty	24 months (calculated from the date of product activation or six months after the date of manufacture, whichever comes first)			
Name	Model		Flow rate	
BioAerosol Sampler-Professional   BAS-Pro	C2121		28.3LPM; 100LPM; 200LPM	
Sampling Head	Order No. (Stainless steel)			
Φ 0.32mm*280 holes (28.3L/min)	J04A010150b			
Φ 0.60mm*280 holes (100L/min)	J04A010151a			
Φ 0.70mm*400 holes (200L/min)	J04A010152a			

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

Certified with: 

