

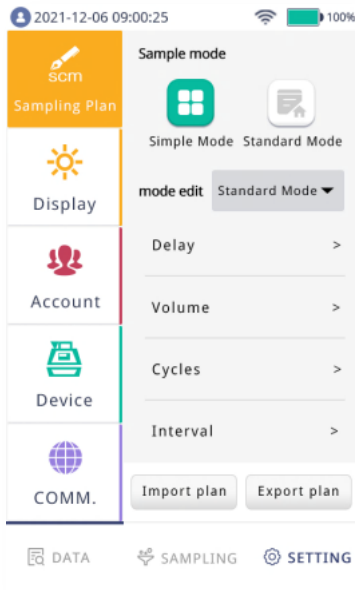
# BAS

## BioAerosol Sampler



### Features:

- High flow rate accuracy: 28.3L/min $\pm$ 4%, 100L/min $\pm$ 2.5%, 200L/min $\pm$ 3%
- Long battery life:
  - 10 hours @ 28.3L/min (16.98m<sup>3</sup>)
  - 10 hours @ 100L/min (60m<sup>3</sup>)
  - 4 hours @ 200L/min (48m<sup>3</sup>)
- Multi-level authority management, customizable permission levels are available.
- Allows for general sampling and remote sampling with up to 8m of sample tubing.
- Supports various types of flowmeters for calibration
- ISO 14698-1 compliant



## Settings

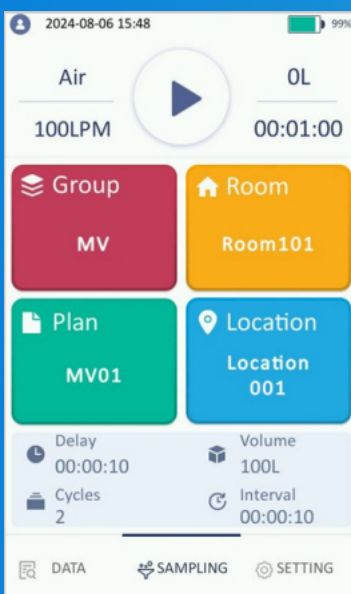
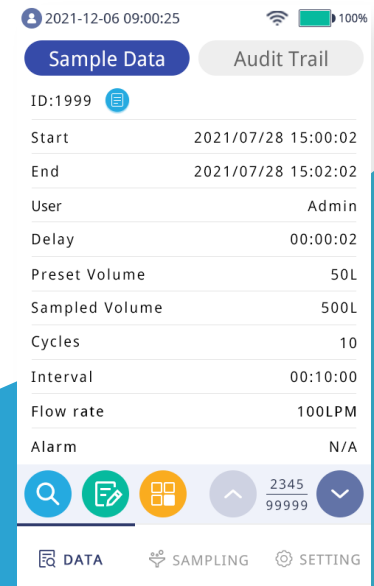
### Intuitive and Streamlined

- Simple interface for customizing sampling plans
- User-friendly input method

## Data

### Detailed and Flexible

- Intuitive sampling records
- Quick search capability for data records
- One-click for exporting and printing data



## Sampling

### Practical and Precise

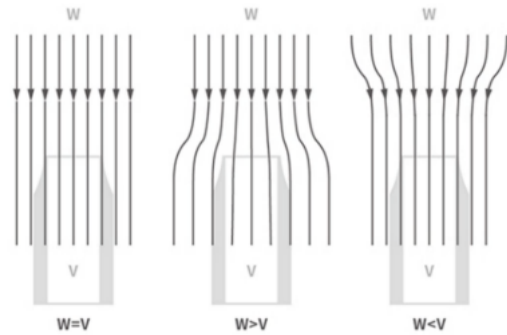
- Intelligent sampling modes enable continuous and cyclic sampling
- Clear and distinct sampling process
- LED lighting and audible alarm for errors

### 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.



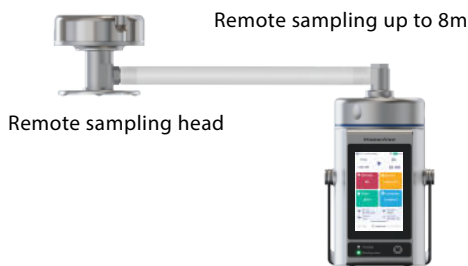
The flow velocity above the sampling head is 0.4m/s, consistent with isokinetic sampling.



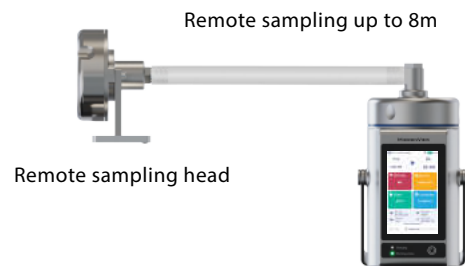
V=Sampling speed of sampling head  
W=Speed of unidirectional flow

### Remote Sampling

Allows the BAS to be used for sampling in an isolator, biological safety cabinet, horizontal laminar flow clean workbench and other significant zones.



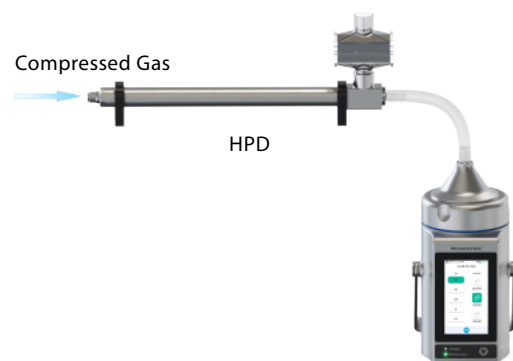
Vertical Flow Sampling



Horizontal Flow Sampling

### Compressed Gas Sampling

Compressed gas is decompressed to atmospheric pressure by the High Pressure Diffuser (HPD) accessory. This gas is then transported to the BioAerosol Sampler for sampling.



## Specification Sheet

Specification	BioAerosol Sampler I BAS
Flow rate	28.3L/min $\pm$ 4%; 100L/min $\pm$ 2.5%; 200L/min $\pm$ 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	1-6000L
Delay	0-23 hours 59 minutes 59 seconds
Cycles	1-999 cycles
Interval	00:00:00, 5 seconds-23 hours 59 minutes 59 seconds
Sampling head	$\Phi$ 0.32 mm*280 holes (28.3L/min)   $\Phi$ 0.60 mm*280 holes (100L/min)   $\Phi$ 0.70mm*400 holes (200L/min) ( Anodized aluminum, 316L stainless steel material available, customizable sampling head )
Isokinetic probe caliber	$\Phi$ 101.8mm
Weight / Dimensions	2.7Kg (6.0lbs); $\Phi$ 110mm, H: 202mm (without foot mat)
External surface	Anodized aluminium
Power	AC 100-240V, 50 Hz/60 Hz
Battery	10.8V, 6800mAh rechargeable lithium battery Battery last $\geq$ 10 hours (28.3L/min)   Battery last $\geq$ 10 hours (100L/min)   Battery last $\geq$ 4 hours (200L/min)
Communication	USB, WIFI
Application extension	Connect with the Airborne Particle Counter (APC) and BioAerosol Monitoring System (BAMS) to collect contaminated samples in real time
Data storage	20,000 sets of records
Alarm	LED lighting and beep
Display	4.3" capacitive touch screen
Language	English, Chinese
Calibration frequency	Annual calibration is recommended
Operating 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 61326-1:20121, 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)

## Ordering Information

Name	Model	Order No.
BioAerosol Sampler   BAS	C130	MACHC130
BioAerosol Sampler (side handle)   BAS	C230	MACHC230

Sampling Head	Order No. (Anodized aluminum)	Order No. (Stainless steel)
$\Phi$ 0.32mm*280 holes (28.3L/min)	S2.A311	S2.S311
$\Phi$ 0.60mm*280 holes (100L/min)	S2.A112	S2.S112
$\Phi$ 0.70mm*400 holes (200L/min)	S2.A231	S2.S231

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Version: 2.2

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