

Remote BAS

BioAerosol Sampler - Remote



The Remote BAS delivers precise and reliable microbial air sampling through two configuration options: an external blower unit with an integrated flow meter for independent, high-accuracy sampling, or a central vacuum system with a restriction orifice for consistent, centralized operation. This flexible setup makes it ideal for fixed-location monitoring across large-scale cleanroom environments.

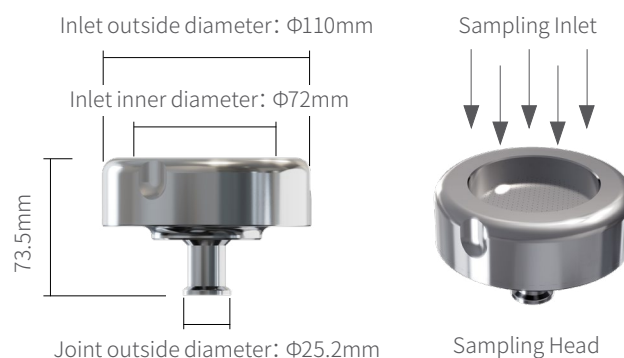
Compact and easy to install, the Remote BAS can be seamlessly integrated into isolators and other fixed-location environments, as well as a variety of cleanroom setups. Its versatile design allows for simple installation in both new and existing systems, while support for multiple communication protocols ensures smooth connectivity and compliance in regulated industries including pharmaceutical, biotechnology, food and beverage, cosmetics, and medical devices.

Features:

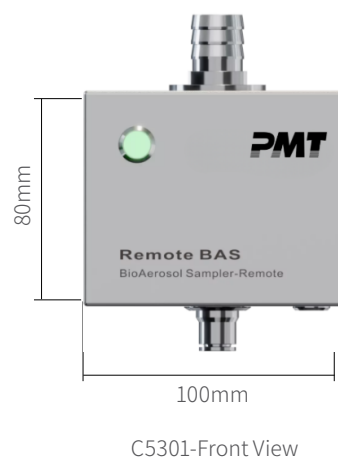
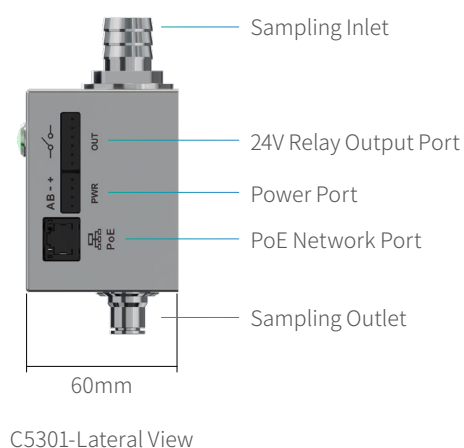
- Flow rate: 28.3 LPM $\pm$ 4%
- Storage capacity for up to 20,000 sampling records
- Power options include standard adapter or PoE supply
- 316L stainless steel enclosure resistant to common cleanroom disinfectants
- Independent sampling control available through optional external blower units

Sampling Head Features:

- Designed for microbial air sampling in isolators, biosafety cabinets, horizontal laminar flow clean workbenches, and other critical areas
- Operates on the Andersen impact principle: air is impacted on the agar surface through the perforated cover at a speed of approximately 21 m/s
- Fully autoclavable and resistant to VHP
- Recommended petri dish diameter: $\Phi 90\text{mm}$



Product Dimensions:



Installation:

The Remote BAS can be installed within an optional protective enclosure or as a standalone unit.



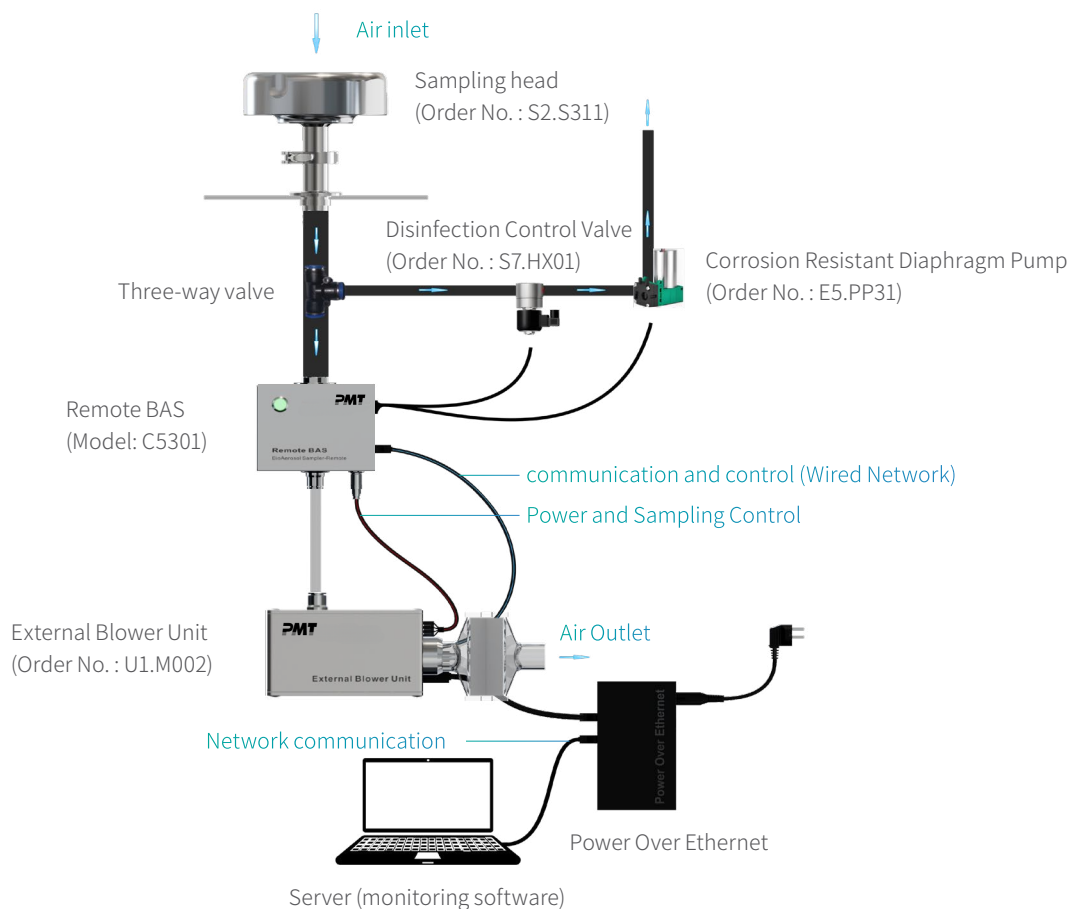
Option 1: Install inside a protective enclosure



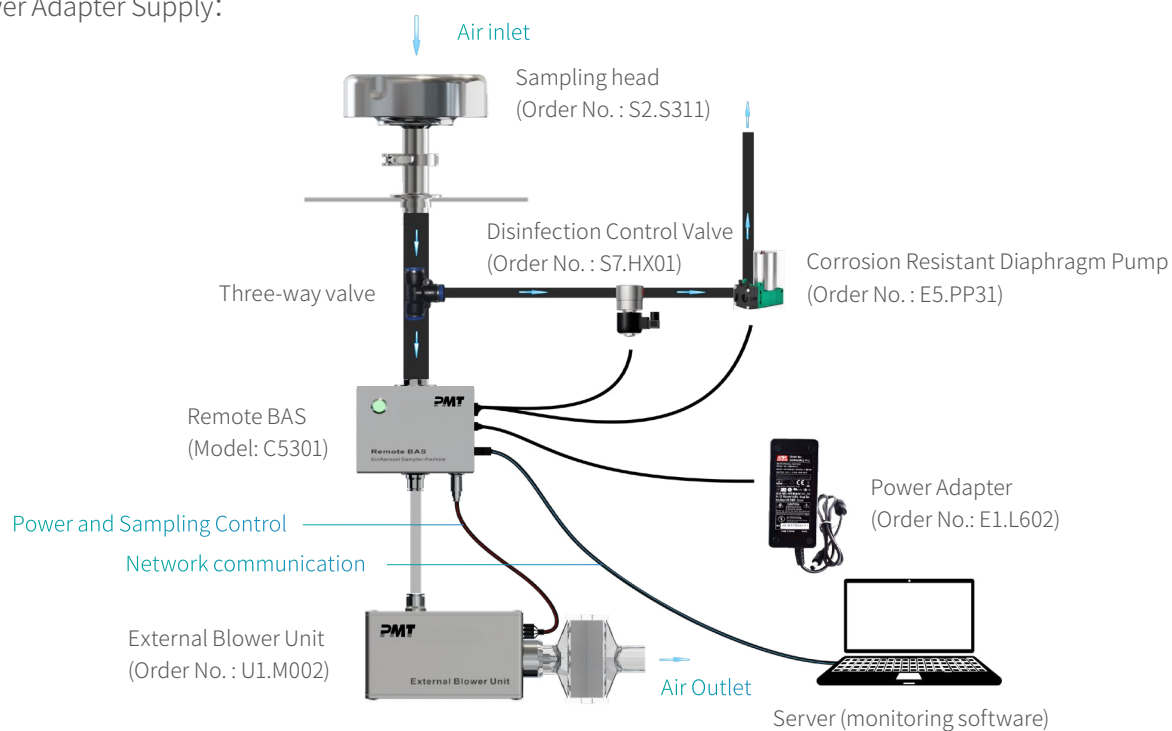
Option 2: Install on a mounting bracket

Configuration Options:

POE Supply:



Power Adapter Supply:



Specification Sheet:

Parameters	Remote BAS
Flow Rate	28.3LPM $\pm$ 4%
Flow Rate Control	Options include: (1) External Restriction Orifice; (2) Built-in differential pressure sensor, which can be connected to an external blower unit for closed-loop automatic control
Exhaust	Outlet of the external blower unit can be connected to a HEPA filter
Display	Status light
Sampling Head	Φ 0.32 mm*280 holes, 316L stainless steel, 0.93 kg/ 2.05 lbs (D50: 0.79)
Dimensions (H×W×D)	124.8×100×60 mm/ 4.91×3.94×2.36 in (incl. inlet and outlet)
Weight	0.50 Kg/ 1.1 lbs
Enclosure	316L stainless steel
Power	PoE Power Supply Options: PoE to Sensor only: IEEE 802.3af (PoE Type 1) or IEEE 802.3at (PoE+ Type 2) PoE to External Blower Unit: IEEE 802.3at (PoE+ Type 2)
	Adapter Power Supply: Input: 100–240V AC, 50/60Hz; Output: 24V DC. The output connector must be compatible with various standard interface types
Communication	RJ45, RS-485
Transmission Protocol	Modbus TCP
Data Storage	20,000 sampling records
Alarm	Status light alarm
Calibration Frequency	Recommended once a year
Operating Conditions	Operating temperature: 5°C-35°C (41°F-95°F); Relative humidity: 5%-90%, non-condensing
Storage Conditions	Storage temperature: 0°C-40°C (32°F-104°F); Relative humidity: 5%-95%, non-condensing
Warranty	24 months (calculated from the date of product activation or six months after the date of manufacture, whichever comes first).

Name	Model	Order No.
BioAerosol Sampler-Remote Remote BAS	C5301	MACHC5301
Remote Sensor Protective Enclosure	N/A	U2.A501
External Blower Unit	N/A	U1.M002
Restriction Orifice	N/A	U1.M003
Sampling Head Set (incl. stainless steel sampling head and plate holder)	N/A	S2.S312
Dust Cover (stainless steel)	N/A	D1.S001