

Remote APC

Airborne Particle Counter - Remote



The remote APC utilizes a built-in blower-free design, achieves precise flow control through two configurations: external blower unit (with an integrated flow meter for independent, high-accuracy sampling) or a central pump (with restriction orifice), significantly enhancing deployment flexibility to meet distributed monitoring needs in large-scale cleanroom. It is specifically optimized for continuous particle monitoring in production facilities across industries such as electronics manufacturing, pharmaceutical production, and medical devices. The modular architecture supports rapid deployment and seamless compatibility with multiple communication protocols, positioning it as the ideal solution for particle monitoring in high-standard cleanroom.

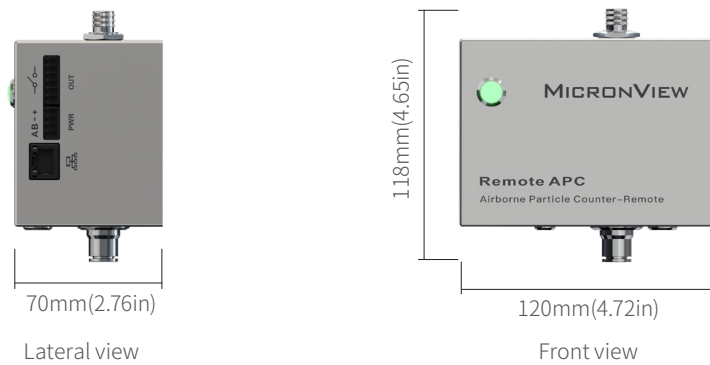
Flexible Configuration & Reliable Performance

- Independent sampling control via optional external blower units
- Seamless maintenance continuity: Rapid swap to backup blower units ensures uninterrupted operation of the particle counter

Features

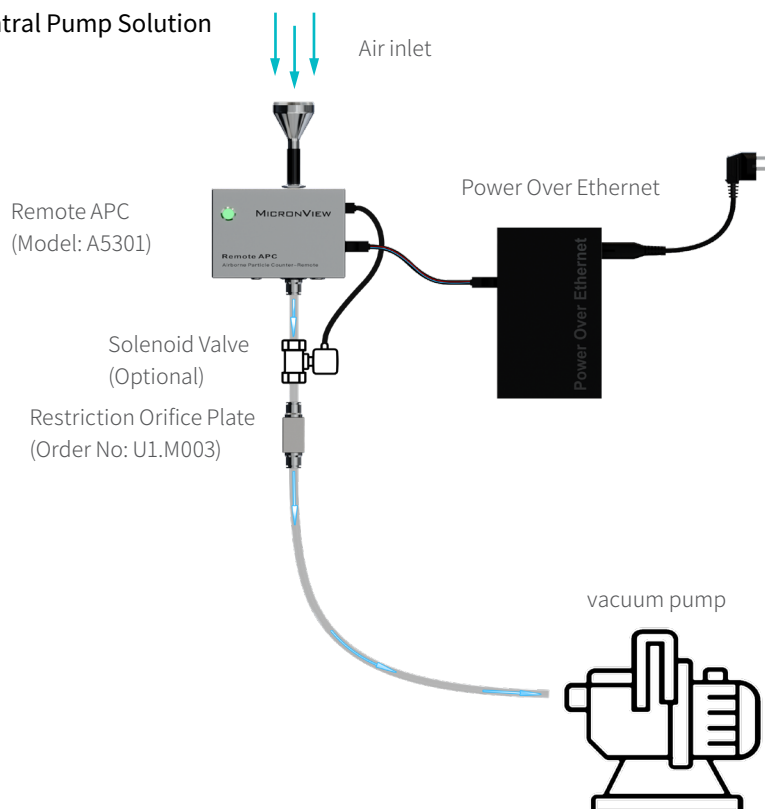
- Size Channel: 0.3μm, 0.5μm, 5.0μm
- Flow Rate: 28.3L/min±5%
- Communication: RJ45、RS485
- Data Storage: By default, 1440 groups of data are cached
- Status Light: power, sampling, flow rate
- Alarm light: laser error, flow rate error
- Power: PoE or 100-240V,50Hz/60HzAC to 24VDC input power supply

Product Dimensions

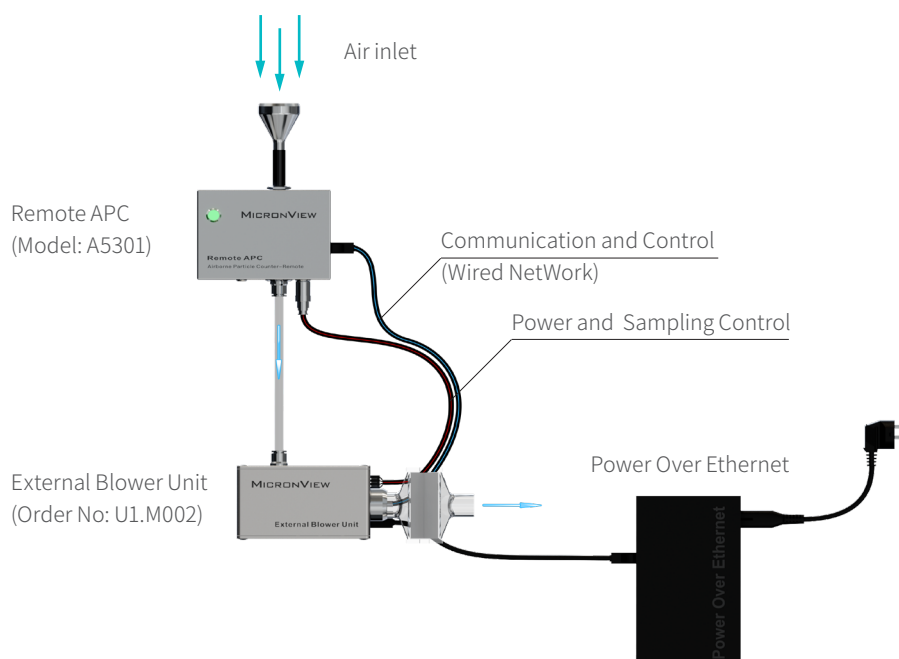


Application

■ Application 1 Central Pump Solution



■ Application 2 External Blower Unit Solution



Specifications and Order Information

Parameters	Remote APC
Flow Rate	28.3LPM $\pm$ 5%
Size Range	0.3 μ m to 25 μ m
Channels	0.3 μ m, 0.5 μ m, 5.0 μ m
Particle Size Resolution	<15% @ 0.5 μ m (Meets ISO 21501-4)
Counting Efficiency	0.3 μ m : 50% $\pm$ 20%, >0.45 μ m: 100% $\pm$ 10% (Meets ISO 21501-4 and JIS B9921)
Concentration Upper Limit	450,000 particles/ft ³ 10% Superposition Error
Zero Count	<1count/5 min
Laser	Long life laser
Communication	RJ45、RS485
Data Storage	By default, 1440 groups of data are cached
Alarm	Alarm light
Display	Status light
Calibration Frequency	Recommended once a year
Calibration Criterion	Compliant with ISO 21501-4
Dimensions (H×W×D)	118×120×70 mm; 4.65×4.72×2.76 in
Weight	0.74 kg/ 1.63 lbs

Parameters	Remote APC
Enclosure	316L stainless steel
Power	PoE ; 100-240V,50Hz/60HzAC to 24VDC input power supply, plug compatible with standard interface types
Maximum Power Consumption	Sensor <13w, connected external power unit <30w
Operating Conditions	Operating temperature: 5-35°C (41°F-95°F); Relative humidity: 5-90% non-condensing
Storage Condition	Storage temperature: 0-40°C (32°F-104°F); Relative humidity: 5-95% non-condensing
Safety	EN 61010-1:2010, EN 61326-1:2013, EN IEC 61326-1:2021
Warranty	24 months (starting from the date of activation of the product or 6 months after delivery, whichever comes first)

Parameters	External Blower Unit
Dimensions (H×W×D)	71×135×104 mm; 2.80×5.32×4.09 in
Weight	0.74 kg/ 1.63 lbs
Enclosure	Aluminium alloy
Operating Conditions	Operating temperature: 5-35°C (41°F-95°F); Relative humidity: 5-90% non-condensing
Storage Condition	Storage temperature: 0-40°C (32°F-104°F); Relative humidity: 5-95% non-condensing
Warranty	12 months (starting from the date of activation of the product or 6 months after delivery, whichever comes first)

Ordering Information

Name	Model	Order No.
Airborne Particle Counter Remote APC	A5301	MACHA5301
External Blower Unit	N/A	U1.M002
Restriction Orifice Plate	N/A	U1.M003
Isokinetic Probe	N/A	S1.0282

MICRONVIEW

Address: 2300 Highway 365 Suite 110, Nederland TX 77627, USA

Website: www.micronview.com

Email: mv@micronview.com

Tel: 1-520-528-1882

