

MINI APC

Airborne Particle Counter - mini



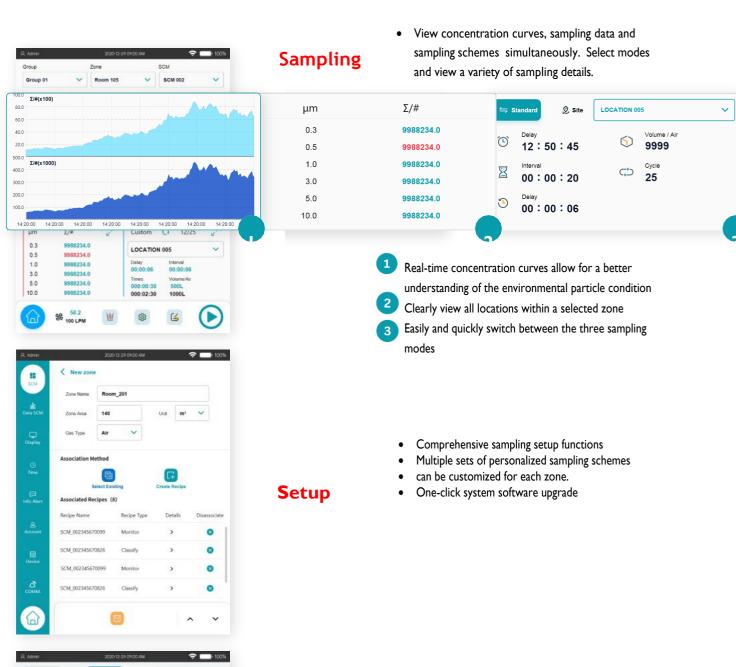
Main Features

- 4.2kg/9.26lbs (without battery)
- Long life laser 10 year warranty
- Sealed 316L stainless steel enclosure, resistant to disinfectants commonly used in cleanrooms
- Dual flow model is available (28.3LPM&100LPM)

- 8" LCD capacitive touch screen
- Multi-level authority management, featured with audit trail
- Complies with FDA 21 CFR Part 11

Functions





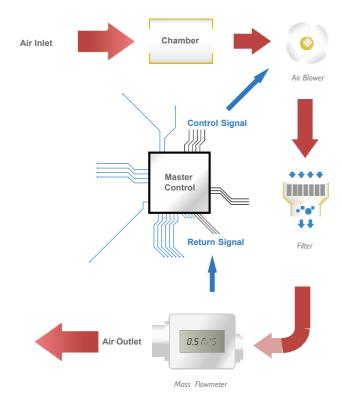
- Data
- Standard report: generate ISO/EU GMP / CHINESE GMP/Fed Std reports.
- Data review and export:
- I. Sum up data by zone.
- 2. Switch counting unit between #,#/ft³,#/m³.
- 3. Automatically generate UCL and average values.
- 4. Search for sample records precisely by time, zone and operator.
- Data integrity: featured with audit trail.

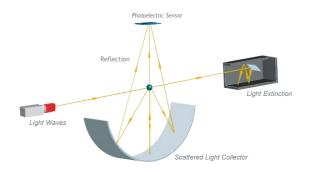
Technical Principle



System Air Flow

Air flow is monitored by a mass flow meter. The PID controller automatically adjusts the blower speed. A reaction speed of 100m/s ensures stable flow andflow rate accuracy ±3%.







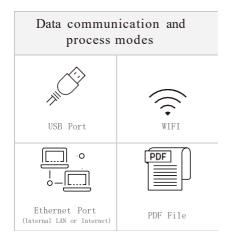
The simulation curve of wavelength varying with temperature

Optical System

MicronView's Airborne Particle Counter laser temperature control system ensures the laser temperature remains fixed, extending the working life of the laser and keeping the output wavelength stable. This ensures the monitoring process is not affected by external temperature and readings remain reliable. The surface of the scattered light collector is gold plated for corrosion resistance and reliability.

Data Management

- 5 million data records can be stored
- 20,000 zones and 200,000 sites can be stored
- Pre-set zone settings, sampling schemes can be export via USB and imported into other mini APC units
- Three-level authority management, featured with audit trail
- Complies with FDA 21 CFR Part 11
- Communication methods: WIFI, USB, RJ45 and Sensor-HUB can be realized
- Sample data can be exported in PDF and db. files
- Generate ISO/EU GMP/CHINESE GMP/Fed Std reports





Specification Sheet

Specification	Airborne Particle Counter - mini I mini APC	Specification	Airborne Particle Counter - mini I mini APC	
	ambient air: A230: 28.3LPM±3%, A220: 50LPM±3%,	Sampling Mode	Manual, auto, beep	
Flow Rate	A210: 100LPM±3%, A240: 28.3LPM/100LPM±3% compressed gas: A230: 28.3LPM±5%, A220: 50LPM±5%, A210: 100LPM±5% (Do not support CO ₂)	Samaling Time		
	A240: 28.3LPM±5%, 100LPM±5% (Do not support CO ₂)	Sampling Time	I second to 168 hours	
		Cycles	I-1000 on one location	
Size Range	A220&A230: 0.3µm to 25µm	Communication	RJ45/USB/SENSOR-HUB/WIFI	
Size ivarige	A210&A240: 0.5μm to 25μm	Data Storage	2.5GB, 5 million sample records	
Size Channel	A210&A240: 0.5, 1.0, 2.0, 3.0, 5.0,10.0µm	Alarm	Audible built-in alarm, external sound and light alarm	
	A220: 0.3, 0.5, 1.0, 3.0, 5.0, 10.0µm A230: 0.3, 0.5, 1.0, 3.0, 5.0, 10.0µm	Display	8"LCD capacitive touch screen	
Size Resolution		Languages	English, Chinese	
Count Efficiency	<15% @ 0.5μm (meets ISO 21501-4:2018) A210&A240: 50%±20% for 0.5μm, 100%±10% for >0.75 μm (meets ISO 21501-4:2018 and JIS B9921:2010) A220: 50%±20% for 0.3μm, 100%±10% for >0.45μm (meets ISO 21501-4:2018 and JIS B9921:2010)	Data Security	Authority management, default authority include admin, supervisor and operator, customized authority available	
		Data Reliability	Compliant with FDA 21 CFR Part 11	
		Reports	Compliant with ISO/EU GMP/CHINESE GMP/Fed Std	
	A230: 50%±20% for 0.3μm, 100%±10% for>0.45μm (meets ISO 21501-4:2018 and JIS B9921:2010)	Printer	Built-in thermal printer, support external printer	
		- Enclosure	316L Stainless Steel	
Concentration Limit	A210&A240: >360,000 particles/ft³ @10% coincidence loss	Power	AC 100-240V, 50 Hz/60 Hz	
	A220: >420,000 particles/ft³ @10% coincidence loss A230: >590,000 particles/ft³ @10% coincidence loss	Battery	10.8V, 9000mAhx2 rechargeable lithium battery Working endurance: A210: 4 hours of sampling time, A220: 8.5 hours of sampling time, A230: 6.5 hours of sampling time A240: 4 hours of sampling time for 100LPM, 12 hours of sampling time for 28.3LPM	
Laser Source	Long life laser	,		
Zero Count	<1 count/5 minutes			
Exhaust	Internal HEPA Filter(>99.999% @ 0.3µm)	Operation Condition	5-35°C(41-95°F), 5-90% RH non-condensing	
Zone/Location	20,000 zones and 200,000 locations	Storage Condition	0-40°C(32-104°F), 5-95% RH non-condensing	
Max power consumption	AC 90W	Dimensions(HxWxD) /Weight	$9.37 \times 6.69 \times 8.66$ in/238 \times 170 \times 220 mm, 4.2kg/9.26lbs (without battery) 5.2kg/11.46lbs (with 2 batteries	
Safety	FCC Part 15, Subpart B, EN 61010-1: 2010+A1:2019, EN 61326-1:2013, EN 61326-2-2:2013, EN 61000-6-1:2007, EN 61000-6-3:2007+A1, EN 60825-1:2014	Warranty	24 months (calculated from the date of product activationor six months after the date of manufacture, whichever comes first)	

Ordering Information

Name	Model	Order No.	Flow rate
Airborne Particle Counter - mini mini APC	A230	MACHA230	28.3LPM±3%
Airborne Particle Counter - mini mini APC	A220	MACHA220	50LPM±3%
Airborne Particle Counter - mini mini APC	A210	MACHA210	I00LPM±3%
Airborne Particle Counter - mini, Dual Flow mini APC-DF	A240	MACHA240	28.3LPM/100LPM±3%

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

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