

0.1µm APC

0.1µm Airborne Particle Counter

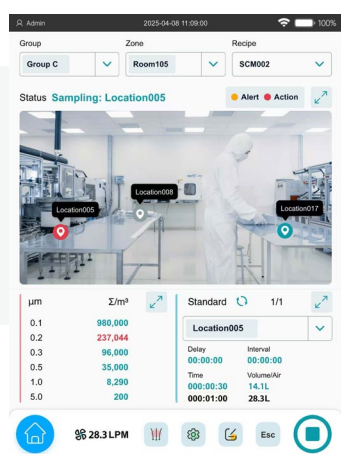


- Weight: 6.0Kg / 13.2 lbs (without battery); 7.0 Kg / 15.3 lbs (with built-in 2x9000mAh batteries)
- Dimensions: 10x7.87x10.39 in/255x200x264 mm HxWxD (with handle and foot mat)
- 8" LCD capacitive touch screen
- Multi-level authority management, with audit trail capabilities
- Compliant with ISO Class 1/Class 2

Sampling

Simultaneously displays three panels: real-time sampling view, sampling readings, and sampling scheme. Select any panel to enlarge and view more details.

- 1 Real-time Sampling View: Visual representation of the sampling location layout
- 2 Sampling Readings: Synchronized display of particle detection readings at each location
- 3 Sampling Scheme: Quickly switch between location and sampling modes



1 Real-time Sampling View

0.1	980,000
0.2	237,044
0.3	96,000
0.5	35,000
1.0	8,290
5.0	200

2 Sampling Readings

Standard
Location
Location005

Delay: Remaining / Preset
00:00:00 / 00:00:00

Cycle: Current / Preset
1 / 1

Interval: Remaining / Preset
00:00:00 / 00:00:00

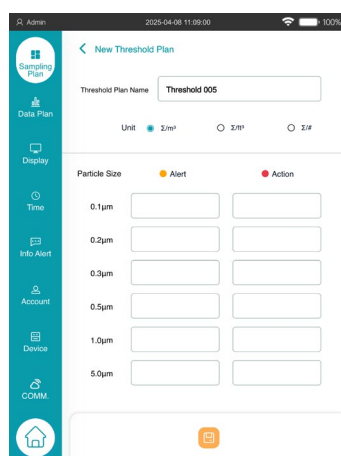
Time: Sampled / Preset
00:01:00 / 00:01:00

Volume: Sampled / Preset
28.3 / 28.3 L

3 Sampling Scheme

Settings

- Powerful functionality, simple interface, and user-friendly operation
- One-click software system upgrade
- Customizable multi-sampling schemes for any room

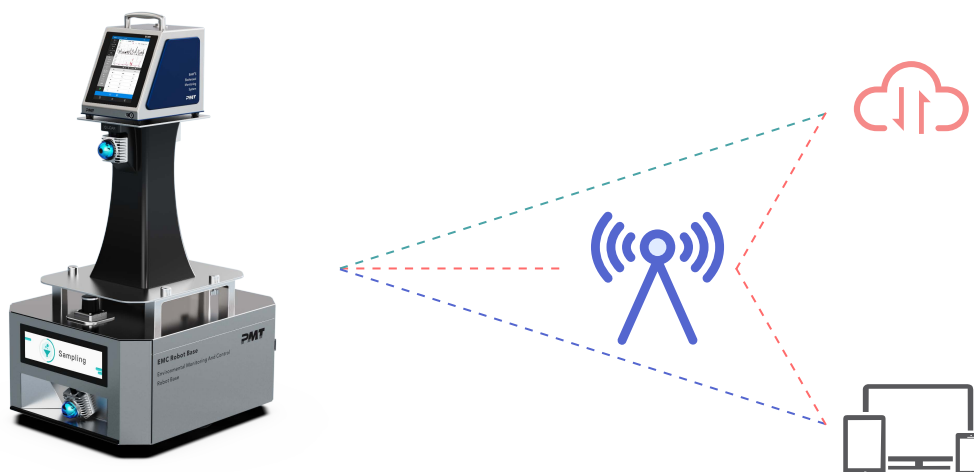


Data

- Standard Reports: One-click generation of ISO/Fed Std reports
- Data Review and Export:
 1. Summarize data by sampling location or zone
 2. Freely switch counting units: #, #/ft³, #/m³
 3. Automatically generate UCL values and averages
 4. Precisely search sampling data by time, zone, operator, etc.
- Data Integrity: audit trail capabilities



Compatible with EMC robots for intelligent airborne particle monitoring



Specification Sheet

Specification	0.1 μm Airborne Particle Counter 0.1 μm APC	
	A010	A030
Particle Size Range	0.1 μm to 1.0 μm	0.1 μm to 10.0 μm
Size Channels	0.1 μm , 0.2 μm , 0.3 μm , 0.5 μm , 0.7 μm , 1.0 μm	0.1 μm , 0.2 μm , 0.3 μm , 0.5 μm , 1.0 μm , 5.0 μm
Count Efficiency	(50 $\pm$ 20)% for 0.1 μm , (100 $\pm$ 10)% for 0.15 μm (meets ISO 21501-4 and JIS B9921)	
Flow Rate	10 LPM $\pm$ 5%	28.3 LPM $\pm$ 5%
Laser Source	Long life laser	
Flow Rate Control	Closed-loop automatic control	
Concentration Limit	4,000,000 particles/ft ³ at 10% coincidence loss	
Zone/Location	20,000 zones and 200,000 locations	
Sampling Time	1 second to 168 hours	
Delay	0 second to 99 hours 59 minutes 59 seconds	
Cycles	1000 samples in one location	
Interval	0 seconds to 99 hours 59 minutes 59 seconds	
Sampling Mode	Manual, auto, cumulative count Σ / differential count Δ or concentration	
Zero Count	<1 count/5 min	

Specification	0.1 μ m Airborne Particle Counter 0.1 μ m APC	
	A010	A030
Exhaust	Built-in HEPA filter, filter efficiency: >99.999%@0.1 μ m	
Display	8" LCD capacitive touch screen	
Language	Chinese, English	
Communication	RJ45, USB, SENSER-HUB, WIFI (Optional)	
Reports	Compliant with ISO/Fed Std	Compliant with ISO/EU GMP/CHINA GMP/Fed Std
Export File	PDF file or EXCEL file	
Data Storage	3.0GB, 5 million sample records	
Data Security	Multi-level authority management, with audit trail capabilities	
Data Reliability	Compliant with 21 CFR Part 11	
Print	Auto or Off-line	
Alarm	Built-in alarm buzzer	
Calibration Frequency	Recommend once a year	
Dimensions (HxWxD)	10x7.87x10.39 in/255x200x264 mm (with handle and foot mat)	
Weight	6.0Kg / 13.2 lbs (without battery), 7.0 Kg / 15.3 lbs (Incl. 2 batteries)	
Enclosure	316L stainless steel and anodized aluminum	
Power	AC 100-240 V, 50 Hz/60 Hz	
Battery	10.8 V, 9000 mAh, rechargeable lithium battery	
Operating Conditions	Temperature: 5°C -35°C / 41°F - 95°F, Relative humidity: 5-90% non-condensing	
Storage Conditions	Temperature: 0°C -40°C / 32°F - 104°F, Relative humidity: 5-95% non-condensing	
Safety	EN 61010-1:2010+A1:2019+AC:20, EN IEC 61326-1:2021, EN 61326-1:2013	
Warranty	12 months (calculated from the date of product activation or six months after the date of manufacture, whichever comes first), laser-10 year warranty	

Ordering Information

Name	Model	Order No.	Flow Rate
0.1 μ m Airborne Particle Counter 0.1 μ m APC	A010	MACHA010	10LPM $\pm$ 5%
0.1 μ m Airborne Particle Counter 0.1 μ m APC	A030	MACHA030	28.3LPM $\pm$ 5%