

# 0.1µm APC

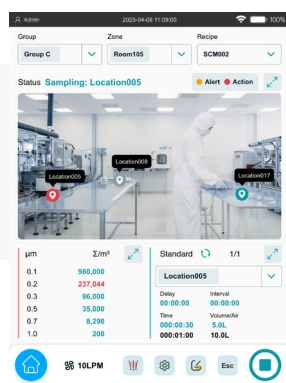
0.1µm Airborne Particle Counter



- Weight: 6.0Kg / 13.2 lbs (without battery); 7.0 Kg / 15.3 lbs (Built-in 2×9000mAh batteries)
- Dimensions: 10x7.87x10.39 in/255x200x264 mm HxWxD (with handle and foot mat)
- 8" LCD capacitive touch screen
- Multi-level authority management, featured with audit trail
- Compliant with ISO Class 1/Class 2

## Sampling

- Simultaneously displays three panels: real-time sampling view, detection readings, and sampling scheme. Select any panel to enlarge and view more details.
  - Real-time Sampling View: Visual representation of the sampling location layout
  - Sampling Readings: Synchronized display of particle detection readings at each location
  - Sampling Scheme: Quickly switch between location and sampling modes



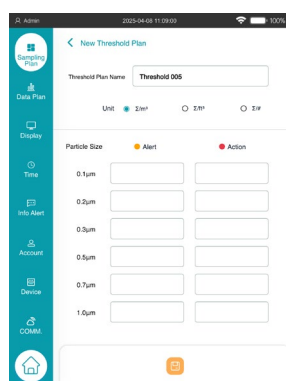
$\mu\text{m}$	$\Sigma/\text{m}^3$
0.1	980,000
0.2	237,044
0.3	96,000
0.5	35,000
0.7	8,290
1.0	200

Standard	Location	Location005
Delay: Remaining / Preset	Cycle: Current / Preset	
00:00:00 / 00:00:00	1 / 1	
Interval: Remaining / Preset	Time: Sampled / Preset	
00:00:00 / 00:00:00	00:01:00 / 00:01:00	
Volume: Sampled / Preset		
10.0 / 10.0 L		

2 Sampling Readings

3 Sampling Scheme

1 Real-time Sampling View



## Setting

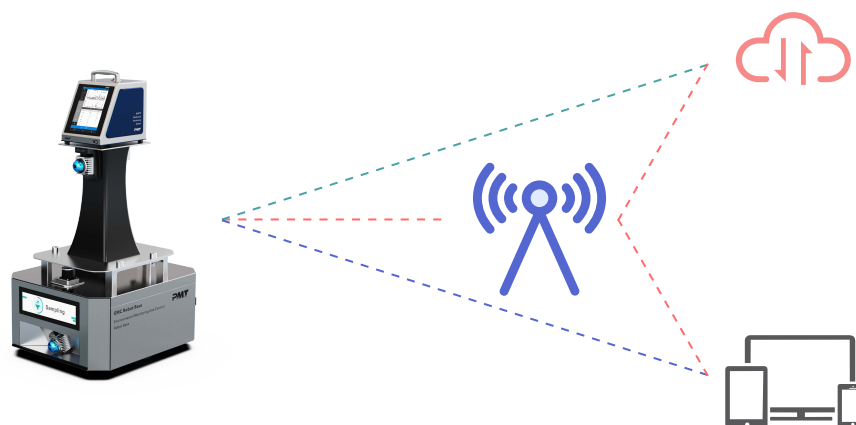
- Powerful functionality, simple interface, and user-friendly operation
- One-click software system upgrade
- Customizable multi-sampling schemes for any room



## 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: #, #/ft<sup>3</sup>, #/m<sup>3</sup>
  3. Automatically generate UCL values and averages
  4. Precisely search sampling data by time, zone, operator, etc.
- Data Integrity: featured with audit trail

Compatible with EMC robots for intelligent airborne particle monitoring



## Specification Sheet

Specification	0.1 µm Airborne Particle Counter   0.1 µm APC
Size Range	0.1 µm to 1.0 µm
Size Channels	0.1 µm, 0.2 µm, 0.3 µm, 0.5 µm, 0.7 µm, 1.0 µm
Count Efficiency	(50±20)% for 0.1 µm, (100±10)% for 0.15 µm (meets ISO 21501-4 and JIS B9921)
Flow Rate	10 LPM±5%
Laser Source	Long life laser
Flow Rate Control	Closed-loop automatic control
Concentration Limit	4,000,000 particles/ft <sup>3</sup> at 10%coincidence loss
Zone/Location	20,000 zones and 200,000 locations
Sampling Time	1 second to 168 hours
Delay	0 second-99 hours 59 minutes 59 seconds
Cycles	1000 samples on one location
Interval	0 seconds-99 hours 59 minutes 59 seconds
Sampling Mode	Manual, auto, cumulative count $\Sigma$ / differential count $\Delta$ or concentration
Zero Count	<1 count/5 min
Exhaust	Built-in HEPA filter, filter efficiency: >99.999%@0.1 µm
Display	8" LCD capacitive touch screen

Specification		0.1 µm Airborne Particle Counter   0.1 µm APC	
Language		English	
Communication		RJ45, USB, SENSER-HUB, WIFI (Optional)	
Reports		Compliant with ISO/ Fed Std	
Export File		PDF file or EXCEL file	
Data Storage		3.0GB, 5 million sample records	
Data Security		Multi-level authority management, featured with audit trail	
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	
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 µm Airborne Particle Counter   0.1 µm APC	A010	MACHA010	10LPM±5%