

# 0.1 $\mu$ m APC

0.1 $\mu$ m Airborne Particle Counter (A030)

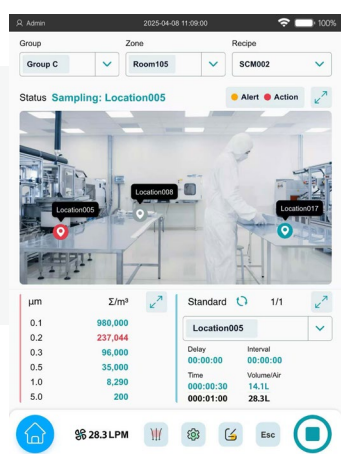


- Weight: 6.0Kg / 13.2 lbs (without battery); 7.0 Kg / 15.3 lbs (with built-in 2x9000mAh batteries)
- Dimensions: 10x7.87x10.39 in/255x200x264 mm HxWxD (with handle and foot mat)
- 8" LCD capacitive touch screen
- Multi-level authority management, with audit trail capabilities
- Compliant with ISO Class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

## Sampling

Simultaneously displays three panels: real-time sampling view, detection 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



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

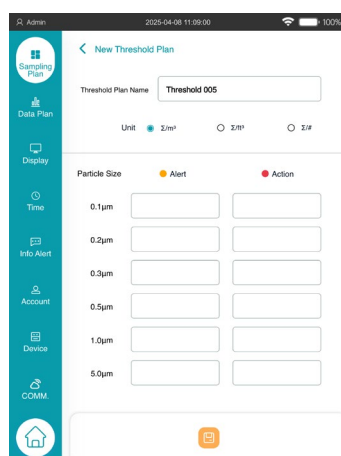
Volume: Sampled / Preset

28.3 / 28.3 L

2 Sampling Readings

3 Sampling Scheme

1 Real-time Sampling View



## Settings

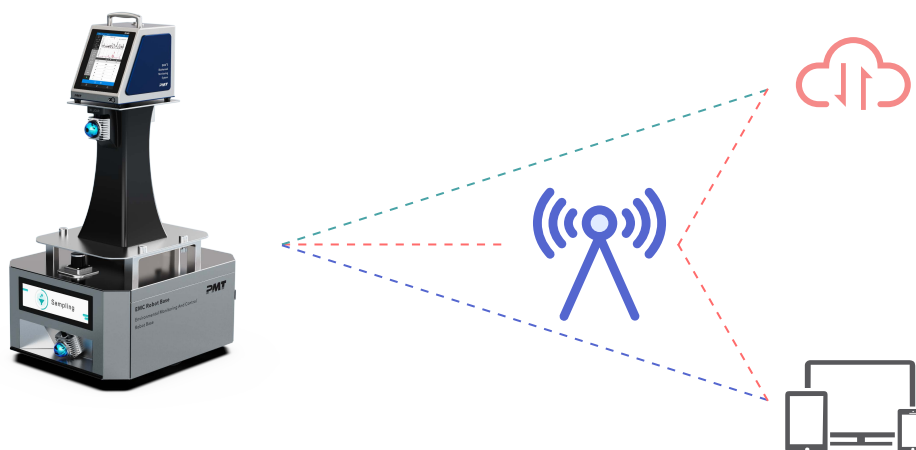
- Powerful functionality, simple interface, and user-friendly operation
- One-click software system upgrade
- Customizable multi-sampling schemes for any room



## 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	0.1µm Airborne Particle Counter - 0.1µm APC
Particle Size Range	0.1 µm to 10.0 µm
Size Channels	0.1 µm, 0.2 µm, 0.3 µm, 0.5 µm, 1.0 µm, 5.0 µm
Count Efficiency	(50±20)% for 0.1 µm, (100±10)% for 0.15 µm (meets ISO 21501-4 and JIS B9921)
Flow Rate	28.3 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 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 $\Sigma$ / 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 0.1µm Airborne Particle Counter - 0.1µm APC	
Language	Chinese, English
Communication	RJ45, USB, SENSER-HUB, WIFI (Optional)
Reports	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 µm Airborne Particle Counter   0.1 µm APC	A030	MACHA030	28.3LPM±5%