

Remote APC

Airborne Particle Counter - Remote



Remote APC with protective enclosure



Remote APC with protective enclosure incl. screen



Remote APC incl. blower and screen



Remote APC incl. blower

The PMT high performance Airborne Particle Counter - Remote (Remote APC) is designed for remote monitoring in a broad range of clean environments. A 28.3 liter per minute flow rate and built-in blower support continuous and scheduled remote sampling in pharmaceutical, electronics, semiconductor, food and beverages, cosmetics, and medical device industries. Remote sampling can be scheduled through Ethernet or WIFI connection. Data can be easily retrieved through connecting to a facility management system. The Remote APC is an ISO 21501-4: 2018 compliant particle counter.

Product Features

Particle size range: 0.3 μ m - 25 μ m

Flow rate: 28.3LPM $\pm$ 3%

Anodized aluminum, resistant to commonly used disinfectants

Long life laser device with temperature control, resistant to corrosion, 10 years warranty

Built-in high velocity blower with HEPA filtered exhaust

Light weight (1.85kg) design fits seamlessly into cleanrooms and tight environments

Easily integrated with facility monitoring systems or building automation systems

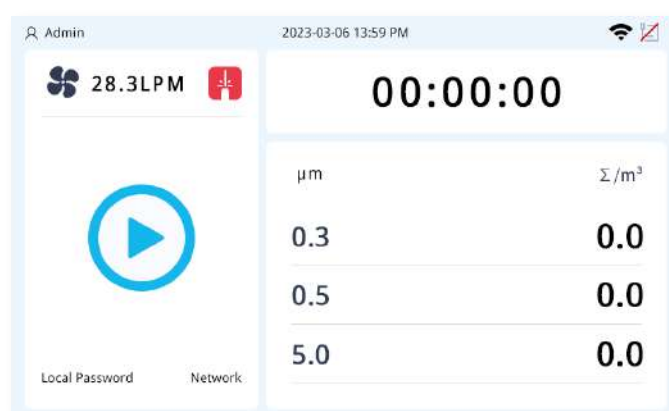
Alarm light indicators for laser error, exceeding preset count limits, and an out of specification flow rate

Accurate & Reliable

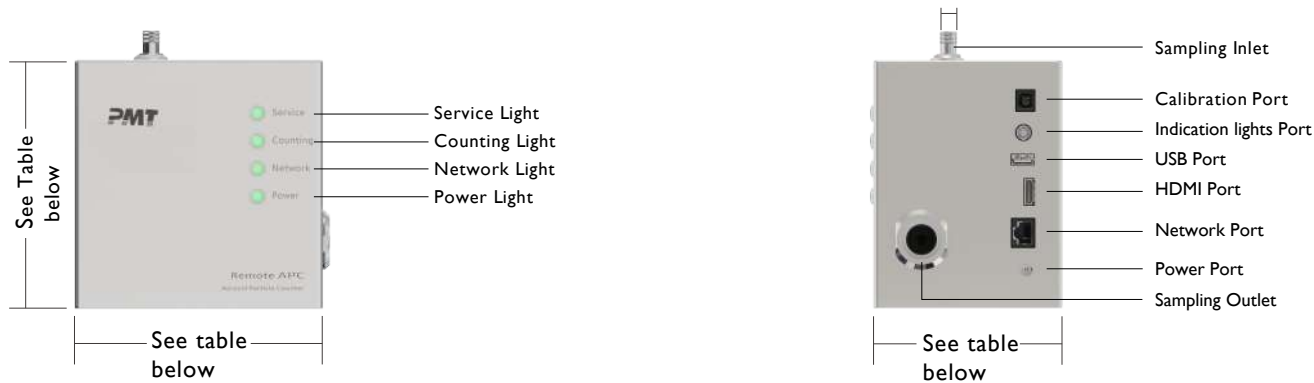
- Elimination of all paper transcription errors
- Improvements in sample integrity and accuracy of data collection
- Local visual indications of operation, stop, hardware error and networking mode
- ISO-21501-4:2018 compliant

Data & Trends

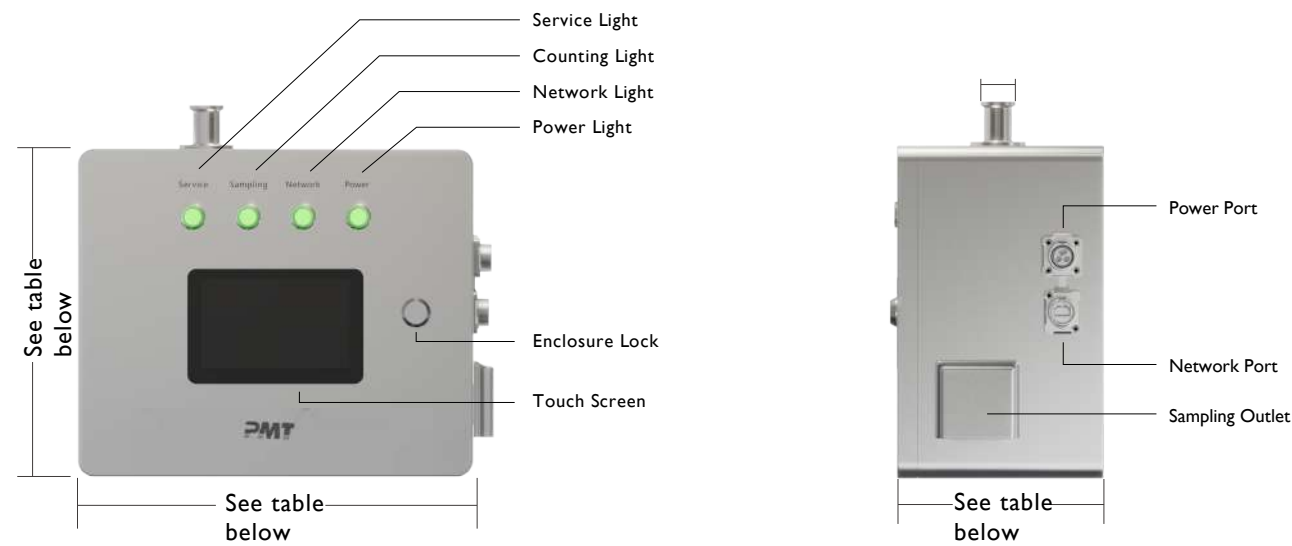
- Clear, easy to use layout
- Easy sampling scheme modification for added flexibility
- Intuitive touch screen display
- Storage of up to 15,000 sample records
- Continuous real-time data collection to support trending



Dimensions



Airborne Particle Counter - Remote



Remote Sensor Protective Enclosure

Installation

The remote APC can be installed independently or alternatively with a protective enclosure



Protective Enclosure with screen



Protective Enclosure without screen

Specification Sheet

Specification	Airborne Particle Counter - Remote Remote APC	Specification	Airborne Particle Counter - Remote Remote APC
Flow rate	28.3LPM±3%	Dimensions	A50BS: 163×153×125 mm A530B: 162×148×110 mm A530: 182×144×90 mm
Exhaust	>99.9996% @0.3µm (Built-in HEPA filter)	Weight	A50BS: 1.95 kg A530B: 1.85 kg A530: 1.60 kg
Size channels	0.3µm, 0.5µm, 5.0µm	Material	Anodized aluminum(316L stainless steel material available)
Size resolution	R≤15% for 0.5µm (meets ISO 21501-4: 2018)	Display	Indication lights
Counting efficiency	50%±20% for 0.3µm, 100%±10% for 0.5µm (meets ISO 21501-4 and JIS B9921)	Blower	Built-in high speed blower
Maximum concentration	1,400,000 particles/ft³ @10% coincidence loss	Power	AC 100-240V to DC 24V, 50 Hz/60 Hz, 1.9A; RJ45 POE power supply
Flow feedback	PID control based on high accuracy flow rate sensor feedback, flow accuracy ±3%, settling time ≤5s	Calibration frequency	Annual calibration is recommended
Zero count	< 1 count/5min	Operation conditions	5°C - 35°C; ≤95% relative humidity
Laser source	Long life laser device	Storage conditions	-10°C - 40°C; ≤98% relative humidity
Data storage	4GB, 15,000 sample records as standard, up to 5 million sample records customizable	Calibration	Meets ISO 21501-4:2018 requirements
Communication	Ethernet, WIFI	Safety	EN 61010-1: 2010+A1:2019, EN 61326-1: 2013, EN 61326-2-2: 2013, EN 60825-1: 2014, EN 61000-6-1:2007, EN 61000-6-3: 2007+A1, FCC Part 15, Subpart B
Protocols	Modbus TCP		
Alarm	Built-in buzzer, system alarm light indicator, external audible and visual alarm available		
Languages	English, Chinese		
Warranty	24 months (calculated from the date of product activation or six months after the date of manufacture, whichever comes first); 10 years laser warranty		

Specification Sheet

Specification	Remote Sensor Protective Enclosure PA510S	Remote Sensor Protective Enclosure PA510
Enclosure dimensions	240(H) × 290(W) × 149(D)mm; 9.45(H) × 11.42(W) × 5.87(D)inches	
Enclosure material	Anodized aluminum(316L stainless steel material available)	
Enclosure weight	4.81kg(10.60lbs)	4.42kg(9.74lbs)
Screen	5.0" capacitive touch screen	N/A

Ordering Information

Name	Model	Order No.
Remote Airborne Particle Counter Remote APC 28.3LPM incl. Blower	A530B	MACHA530B
Remote Airborne Particle Counter Remote APC 28.3LPM incl. Blower and Screen	A530BS	MACHA530BS
Remote Airborne Particle Counter Remote APC 28.3LPM w/o Blower	A530	MACHA530
Enclosure Stainless-steel incl. Screen	PA510S	N/A
Enclosure Stainless-steel w/o Screen	PA510	N/A

* Model Name: B: Blower; S: Screen