



# Portable Airborne Particle Counter

## LPPC-A2 Series

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Portable airborne particle counter LPPC-A2 Series are six channel microcomputer controlled units. They have a provision of simultaneously counting particles in six different size ranges with real time monitoring. Equipped with built-in thermal sensitive printer for direct printing of pre-recorded and current data for end user convenience. The particle count data can be conveniently viewed, downloaded or printed directly using the built-in printer featuring multiple print mode.

## Features

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- Large LCD screen for displaying particle count of all channels
- Laser sensor based particle detection
- Dual counting mode ( Auto/Manual )
- Data conversion : ft<sup>3</sup> and m<sup>3</sup>
- Data Display modes : Counts, Counts/m<sup>3</sup>, Counts/ft<sup>3</sup> ( LPPC-A21 )
- Excess count limit alarm ( LPPC-A20 )
- Date and time display
- Optional rechargeable battery

## Applications

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Used in clean room monitoring, indoor air quality testing, filter testing, tracking particle sources, pharmaceuticals, R&D labs, and electronics and semiconductor industries; monitoring of biosafety cabinets, clean benches, computer rooms and HVAC system performance; in fields of optics, aerospace, pharmaceutical, electronics, food hygiene industry, etc.

## Specifications

Model	LPPC-A20	LPPC-A21
Particle size channels	0.3 μm, 0.5 μm, 1.0 μm, 3.0 μm, 5.0 μm, 10.0 μm	0.3 μm, 0.5 μm, 1.0 μm, 3.0 μm, 5.0 μm, 10.0 μm
		0.3 μm, 0.5 μm, 1.0 μm, 2.0 μm, 3.0 μm, 5.0 μm
Flow Rate	0.1 CFM ( 2.83 L/min )	1 CFM ( 28.3 L/min )
Test class	Class 100 ~ Class 300,000	Class 100 ~ Class 300,000
Test period	1 min ~ 10 min	1 min ~ 10 min
UCL Calculation	95 %	95 %
Light source and life	Semiconductor laser ( > 30,000 hours )	Semiconductor laser ( > 30,000 hours )
Self-clean time	≤ 10 min	≤ 10 min
Operating temperature range	10 °C to 35 °C	10 °C to 35 °C
Operational humidity	≤ 75 % RH	≤ 75 % RH
Batteries	Lithium-ion ( Optional )	Lithium-ion ( Optional )
Battery life	> 4 hours continuous usage	> 4 hours continuous usage
Communication interface	RS232 ( Optional )	–
Power	220 V ± 10 %, 50 Hz ± 2 Hz	220 V ± 10 %, 50 Hz ± 2 Hz
Power dissipation	12 W	100 W
Dimensions	235 x 300 x 115 mm	245 x 410 x 125 mm
Weight	3.3 kgs	8.0 kgs

### Standard accessories for LPPC-A2 series

Accessory No	Accessory	Quantity
1.	Aluminum alloy case	1
2.	Power cord	1
3.	Sampling rack	1
4.	Printing paper	1
5.	Fuse	1
6.	Operating manual	1

### Optional accessories for LPPC-A2 series

Accessory No	Accessory	Quantity
1.	Li-battery	1
2.	Software	1