












# Portable Airborne Particle Counter

LPPC-BI Series

## Portable Airborne Particle Counter LPPC-B1 Series

Portable airborne particle counter LPPC B1 series are eight channel units with higher flow rates that can confirm the class of a clean room. They have a provision of simultaneously counting particles in eight different size ranges with real time monitoring. They feature a user defined particle count limit thus offering end user flexibility. The particle count data can be conveniently viewed on screen, downloaded or printed directly using the built in printer.

### Features

-  7 inches colour touch screen for displaying particle count of all channels
-  Laser sensor based particle detection
-  Large data storage capacity ( 5000 samples )
-  Samples a cubic meter of air in less than 20 minutes (LPPC B11)
-  Data conversion : ft<sup>3</sup> and m<sup>3</sup>
-  UCL calculation
-  Built in thermal printer
-  Direct data export using WiFi connectivity
-  Stainless steel housing

### Application

Used in clean room monitoring, indoor air quality testing, HEPA filter performance testing, tracking particle sources; monitoring of biosafety cabinets, clean benches, computer rooms and HVAC system performance.

## Specifications

Model	LPPC-B10	LPPC-B11	LPPC-B12
Particle size channels	0.3 μm, 0.5 μm, 0.7 μm, 1.0 μm, 2.0 μm, 3.0 μm, 5.0 μm, 10.0 μm	0.3 μm, 0.5 μm, 0.7 μm, 1.0 μm, 2.0 μm, 3.0 μm, 5.0 μm, 10.0 μm	0.3 μm, 0.5 μm, 0.7 μm, 1.0 μm, 2.0 μm, 3.0 μm, 5.0 μm, 10.0 μm
Flow Rate	1.0 CFM ( 28.3 L/min )	50 L/min	100 L/min
Sensitivity	0.3 μm	0.3 μm	0.3 μm
Test period	1 sec – 5999 sec ( 5 L – 3000 L )	1 sec – 3599 sec ( 5 L – 3000 L )	1 sec – 5999 sec ( 5 L – 3000 L )
Max. permissible sampling concentration	35,000 pcs/L	35,000 pcs/L	35,000 pcs/L
Light source and life	Semiconductor laser ( > 30,000 hours )	Laser diode	Semiconductor laser ( > 30,000 hours )
Self-clean time	≤ 10 min	≤ 10 min	≤ 10 min
Operating temperature range	10 °C to 35 °C	10 °C to 35 °C	10 °C to 35 °C
Operational humidity	≤ 75 % RH	≤ 75 % RH	≤ 75 % RH
Batteries	Lithium-ion ( optional )	Lithium-ion ( optional )	Lithium-ion ( optional )
Battery life	> 4 hours continuous usage	> 4 hours continuous usage	> 4 hours continuous usage
Communication interface	RS485	RS485	USB-485, Ethernet
Power	220 V ± 10 %, 50 Hz ± 2 Hz	220 V ± 10 %, 50 Hz ± 2 Hz	220 V ± 10 %, 50 Hz ± 2 Hz
Power dissipation	145 W	145 W	145 W
Dimensions (W x L x H)	220 x 285 x 260 mm	220 x 285 x 260 mm	223 x 348 x 250 mm
Weight	8.5 kgs	9.1 kgs	7.1 kgs

**Standard Accessories for LPPC - B10 & LPPC- B12**

<b>Accessory No</b>	<b>Accessory</b>	<b>Quantity</b>
1.	Isokinetic probe	1
2.	Power cord	1
3.	Tripod	1
4.	Printing paper	1
5.	Fuse	1
6.	Filter	1

**Standard Accessories for LPPC - B11**

<b>Accessory No</b>	<b>Accessory</b>	<b>Quantity</b>
1.	Carrying case	1
2.	Power cord	1
3.	Tripod	1
4.	Printing paper	1
5.	Fuse	1
6.	Filter	1

**Optional accessories**

<b>Accessory</b>	<b>Accessory No</b>	<b>Quantity</b>
Li-Battery	1.	1