

Handheld Airborne Particle Counter

LHPC - A10



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Handheld airborne particle counter LHPC-A10 is a six channel microcomputer controlled particle counter. It features a provision of simultaneous particle counting in six different size ranges. Its built-in manual and auto-calculative UCL sampling modes offer functional flexibility. The provision of setting a user-defined particle count limit makes this device an ideal choice for clean room applications.

Features

- High-resolution LCD screen for displaying particle count of all channels
- Data conversion : ft³ and m³
- Data display modes : Counts, Counts/m³, Counts/ft³
- Delay time and zero count
- Large data storage capacity (1,500 records)
- Real time error alarm and excess count limit warning
- Battery status indication
- Light weight ABS plastic body
- External printer connectivity
- Standard data communication software
- Easy data down and transfer

Applications

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

Specifications

MODEL NO	LHPC-A10
Particle size channels	0.3 µm, 0.5 µm, 1.0 µm, 2.0 µm, 3.0 µm, 5.0 µm
	0.3 µm, 0.5 µm, 1.0 µm, 3.0 µm, 5.0 µm, 10.0 µm
Flow rate	0.1 CFM (2.83 L/min)
Test class	Class 100 ~ Class 300,000
Counting efficiency	50 % at 0.3 µm
	100 % at 0.5 µm
Test period	1 min ~ 10 min (10 levels)
UCL calculation	95 %
Light source and life	Semiconductor laser (> 30,000 hours)
Self-clean time	≤ 10 min

Operating temperature range	10 °C to 35 °C
Operational humidity	≤ 75 % RH
Communication protocol	9600 bps Baud rate
Batteries	Rechargeable Li-on battery (3.7 V / 4800 mAh)
Battery life	≥ 8 hours of continuous usage
Power	AC adapter
	100 V 60 Hz ; 240 V 50 Hz
Power dissipation	0.5 W
Dimensions	245 x 130 x 45 mm
Weight	0.8 kgs

Standard Accessories

Accessory No.	Accessory	Quantity
1.	Aluminum alloy case	1
2.	Operating manual	1
3.	Power adapter	1
4.	Sampling head	1
5.	USB line	1

Optional Features

Sr. No	Accessory Modules	Quantity
1.	Temperature and humidity	1
2.	Differential pressure	1
3.	Air velocity	1