

Handheld Particle Counter Model LP301



Handheld Airborne Particle Counter

LPC Co., Ltd's LP301 handheld particle counter measures 0.3 μm to 5.0 μm with a flow rate of 0.1 CFM (2.83 LPM).

Only 1.26 lb (0.57 Kg), user-friendly and easy to configure, this handheld particle counter displays up to 3 size channels on its 3.5" LCD display.

LPC Co., Ltd's LP301 stores 8,000 sample records that can be viewed on the unit or on a computer via USB cable. The LP301 complies with ISO 21501-4 and includes a one year warranty, with excellent quality and reliable performance, LPC Co., Ltd. LP301 is the best priced and low maintenance costed handheld particle counter in the market.



Features & Benefits

- Measures 0.3 μm to 5.0 μm
- 0.1 CFM (2.83 LPM) flow rate
- Measures 3 channels of simultaneous data
- Large LCD display
- View data recorded on-screen or via computer
- Long life laser diode
- USB output
- Concentration limit of 4,000,000 per ft^3
- Stores up to 8,000 sample records and 199 sample locations
- Complies with ISO 21501-4 and JIS B9921 standards
- Includes carrying case, battery charger and download software
- Removable and rechargeable AA batteries Lightweight high-impact injection molded plastic enclosure
- Weights only (0.57 kg)
- 1 year limited warranty

Display

AUTO				0000 / 8000		10:35	
▲▼ CNT		Σ		△			
0.3 μm	6615	5280					
0.5 μm	1335	1333					
5.0 μm	2	2					
LOC.	001	CYCLES	00/01				
STIME	01:00	HOLD	00:05				
START	Stopped						MENU

Applications

- Conducting ISO certification of cleanrooms
- GMP (According to the ISO 14644 standard)
- Detecting local particle sources
- Point-of-use measurements in cleanrooms
- Filter testing and leak detection
- Portable particle counting



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Specifications

• Size Range	0.3 μm to 5.0 μm
• Channel Sizes	Channel 1:0.3/0.5 μm , Channel 2:0.5/1.0/2.0/2.5 μm , Channel 3:5.0 μm
• Counting Efficiency	50% at 0.3 μm : 100% for particles > 0.45 μm (per JIS)
• Concentration Limits	4,000,000 particles / ft^3 at 5% coincidence loss
• Light Source	Long life laser diode
• Zero Count Level	<1 count / 5 minutes (per JIS B9921)
• Flow Rate	0.1 CFM (2.83 LPM)
• Calibration	NIST traceable
• Sample Probe/Tubing	Isokinetic sampling probe and probe for tubing
• Sampling Modes	Manual, automatic, ISO, cumulative/differential, count/concentration, GMP
• Sampling Time	1 second to 99 minutes 59 seconds (Configurable)
• Sampling Frequency	1 to 1,999 cycles or continuous (Configurable)
• Sample Output	Internal HEPA filter
• Vacuum Source	Internal pump
• Communication Interface	USB
• Data Storage	8,000 sample records
• Display	3.5"(8.9 cm) 320 x 240 LCD
• Power	DC 5V 1A (Mini USB TYPE-B)
• Battery	Removable AA Ni-MH
• Dimensions (LxWxH)	7" x 3.5" x 1.9" (17.8cm x 9cm x 4.7cm) does not include probes
• Weight	1.26 lb (5.7 kg)
• Standards	ISO 21501-4 and JIS B9921
• Warranty	1 year limited warranty
• Operating Conditions	5°C to 35°C 20% to 95%RH non-condensing
• Storage Conditions	-20°C to 50°C Up to 98%RH non-condensing
• Included Accessories	Operating manual on USB, AC adapter, isokinetic inlet probe for tubing, USB cable, purge filter, data download software, 4 x AA batteries with charger, calibration certificate & carrying case
• Option	Tripod, KOLAS Calibration

¹ISO 5-9 at 0.3-5.0 μm excluding ISO 5 at 5.0 μm