

AIR PARTICLE COUNTER 100 LPM / 50 LPM

The basic principle of laser particle counter is the detection of optical sensor. After scattering by particles, the laser is received by photosensitive element and generates pulse signal. The pulse signal is output and amplified, and then digital signal processing is carried out. By comparing with standard particle signal, the comparison result is expressed with different parameters.

2- Channel remote particle sensors for Cleanroom monitoring applications.

FEATURES OF AIR PARTICLE COUNTER

- Complaint with ISO 21501-4 Calibration Standard
- 6 channels 0.5, 1.0, 3.0, 5.0 10 and 25µm sensitivity
- Flow Rate: 100 LPM [3.53 CFM] & 50 LPM [1.77 CFM]
- 21 CFR Part 11 complaint with IOQ Documentation
- Extended warranty 1 year



BENEFIT OF AIR PARTICLE COUNTER

- The dust particle counter has built-in long-life laser diode,
- Reliable operation with heavy industrial electrical immunity compliance
- Measures multi-Standard ISO14644-1:2015/GMP: 2015 & ISO 8573-1, 2, 3.
- Light collection elliptical lens and unique optical system to provide concentration measurement range
- The real-time display of particle data of 0.5, 1.0, 3.0, 5.0, 10 and 25µm 6 channels can be switched to display the actual particle number or particle concentration value (1m3)

APPLICATIONS

- Cleanroom cleanliness detection
- Pharmacy or Electronic Industry routine inspection
- High concentration Aerosol Measurement
- Airborne Particle Measurement
- Hospital Surgical Operation Rooms
- HEPA Filter Leakage test



TECHNICAL PARAMETERS

Model	LPC 0100	LPC0050
Size Channels	0.5, 1, 3, 5, 10, 25µm	
Flow Rate	100 L/min [3.53 CFM]	50 L/min [1.77 CFM]
Optical Sensor	Laser Diode	
Counting Efficiency	50±20% at 0.5µm	50±20% at 0.5µm
Concentration Limit for 0.5 µm	300,000 particles/ft3 at10% coincidence loss	500,000 particles/ft3 at10% coincidence loss
Sampling time	6~999999s (Selectable)	
Zero Count	≤10min	
Hold Time	0-9999s	
Delay Time	5-999s	
Printer	Built-in Thermal Printer	
Data Storage	20000 Samples/300Samples of UCL(With PC Software)	
Maximum Rated Particle Concentration	35000 particles/L	
Display	7inch Color Screen	
Enclosure Material	SUS316L Stainless Steel	
Storing Environment	Temperature: 10~35°C; Humidity:20%~75%RH; Atmosphere Pressure:86~106Kpa	
Outside Dimensions	268×295×192(mm3)	
Weight	8.4kg	
Max. Consumption	80W	
Power Source	DC16.8V	
Standard Class & Reports	ISO14644-1:2015/GMP: 2015 & ISO8573-1, 2, 3.	
Interface	Ethernet & USB	
Security	Password authentication and management, secure data, and audit trails (meets 21 CFR Part 11 compliance)	
Power Supply	Li-ion battery or AC adapter (100 to 240V)	
Operating Time	More Than 5.5 Hours	
Accessories Including	Operation manual, zero filter, 1 x Li-ion battery, AC adapter, sampling tubing, USB memory, isokinetic probe, Printer Paper Roll, NIST Certificate	