

Introduction to desktop dust particle counter



Model: SX-L301A Model: SX-L3100AL Model: SX-L310A

The A series dust particle counter is a new generation of touch-screen portable dust particle counters developed by our company.

The instrument features a 7-inch color touch screen, with an elegant and grand appearance, and is made of SUS316L stainless steel. It uses a brushless DC fan as the vacuum power source, ensuring continuous, stable operation with ultra-low noise, making it energy-efficient and environmentally friendly. The instrument is equipped with a digital flow sensor for dynamic and precise control of sampling flow. It can be powered by AC or a large-capacity lithium battery, making it ideal for mobile detection in areas without AC power.

The instrument is user-friendly, with a simple operation and a user-friendly interface, enabling efficient and effective detection of suspended particles in clean environments. It is the preferred choice for rapid testing of cleanroom cleanliness in industries such as biopharmaceuticals, electronics, semiconductors, and new energy.



merit

- Provide a complete verification manual to facilitate compliance with pharmaceutical/electronic specifications
- Built-in thermal printer for sampling data printing
- Support long-term data storage and USB export
- Light weight and ergonomic design suitable for one person to operate
- Audit tracking, personnel operation record storage
- The particle number alarm is realized by setting the alarm parameters
- Set up separate passwords and operation permissions according to the identity of operator, auditor and administrator
- Sampling area, grade standard and particle size selection can be preset in advance
- GMP and ISO 14644-1 cleanliness standard judgment
- It was verified according to JJF 1190-2008 and GB/T 6167-2007
- 7-inch touch screen, simplified operation
- Support RS485: ModbusRTU protocol, Ethernet: Modbus TCP/IP protocol

function

- Particle size distribution error: $\pm 30\%$
- Error of indicated concentration: less than $\pm 30\%FS$
- Relative error of repeatability: less than or equal to 10%FS
- Self-cleaning time: less than 10min
- Complies with GMP static, GMP dynamic and ISO 14644-1 standards
- Sampling concentration: 35,000 particles/l
- Up to 200 users can set independent passwords and assign three levels of permission
- 5 million ordinary sampling data, 1 million UCL sampling data, and 10 million audit tracking data

apply

- Cleanliness testing of clean room (area)
- Daily maintenance and monitoring of clean rooms in electronics plants and pharmaceutical factories
- Measurement of airborne particles

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model	SX-L301A	SX-L310A	SX-L3100AL
Sampling flow	2.83L/min \pm 5% (0.1CFM)	28.3L/min \pm 5% (1.0 CFM)	100L/min \pm 5% (3.53 CFM)
Particle size channel	0.3 μ m, 0.5 μ m, 1.0 μ m, 5.0 μ m, 10.0 μ m, 25.0 μ m can be screened		
laser light source	Imported laser diodes (continuous life up to 100,000 hours)		
Vacuum power source	The continuous working flow of the DC fan is stable, energy saving and environmental protection, and it is efficient and low noise		
Verification criteria	JJF 1190-2008, GB/T 6167-2007		
Relative error of repeatability	\leq 10%FS		
Particle size distribution error	\leq 30%		
Particle concentration indication error	\leq \pm 30%FS		
Self-cleaning time	\leq 10min (counting is zero for 3 consecutive times within 10 minutes)		
Dwell time	User set (1~14400 seconds)		
Sampling delay	User set (1~255 seconds)		
District management	You can preset 1000 sampling areas and save the configuration parameters independently		
Number of sampling points	1~250		
Number of samples (per point)	1~50		
Point spacing	Manual/automatic (0 to 14,400 seconds)		
Sampling concentration	35,000 particles /L		
Counting mode	Cumulative number, concentration (m ³ , ft ³)		
Data memory capacity	5 million ordinary sampling data, 1 million UCL sampling data, and 10 million audit tracking data		
Cleanliness grade judgment criteria	ISO 14644.1-1999, GMP dynamic, GMP static, GB/T 25915.1-2021, YY/T 0033-2000		
Operate time	The continuous test time after full charge is more than 8 hours		
Authority management	Three levels of permission, data storage and retrieval, printing		
Source	DC25.2V 5A		
Other accessories	Equal power sampling frame, data U disk, network cable, communication terminal, exhaust port, wifi antenna		
Environment	Usage environment: temperature 0~40°C relative humidity 10~70% Storage environment: temperature-30°C~45°C relative humidity 0~90%		
Outline dimension	210.5 long x 195 wide x 231 thick (mm) excluding sampling port 242 long x 195 wide x 286 thick (mm) excluding sampling port		
Exterior material	SUS316L stainless steel		
Weight	4.6kg	4.6kg	6.0kg
Power	Counter (15W), charger (126W)		Counter (75W), charger (126W)
Quality Assurance	The warranty is 1 year, and optional extended warranty service is available		

