

# Introduction to handheld dust particle counter



Model: SX-L301H

The SX-L301H type dust particle counter is a new generation of touch-screen handheld devices developed by our company, with a sampling flow rate of  $2.83\text{L/min} \pm 5\%$  ( $0.1\text{CFM}$ ). The instrument features a 4.3-inch color touchscreen, an elegant and robust design, and is made from full ABS material with a surface that has been spray-coated. It uses a pneumatic pump for continuous and stable operation, featuring ultra-low noise, energy efficiency, and environmental friendliness. It is equipped with an imported digital flow sensor for dynamic and precise control of the sampling flow rate. The instrument 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
- An external Bluetooth printer is used to print the sampled data
- Support long-term data storage and data export
- Light weight and ergonomic engineering design is suitable for one person to operate
- Audit tracking, personnel operation record storage
- Sampling areas and grade standards can be preset
- GMP and ISO 14644-1 cleanliness standard judgment
- It was verified according to JJF 1190-2008 and GB/T 6167-2007
- 4.3-inch touch screen, simplified operation

## function

- Sampling flow:  $2.83\text{ L/min} \pm 5\%$  ( $0.1\text{ CFM}$ )
- Particle size distribution error:  $\pm 30\%$
- Error of indicated concentration:  $\pm 30\%\text{FS}$
- Relative error of repeatability: less than or equal to  $10\%\text{FS}$
- Self-cleaning time: less than 10min
- Complies with GMP static, GMP dynamic and ISO 14644-1 standards
- Sampling concentration: 35,000 particles/liter
- 5000 sets of stored 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-L301H
Grain size channel	0.3μm,0.5μm,1.0μm,3.0μm,5.0μm,10.0μm
Sampling flow	2.83L/min ±5% (0.1 CFM)
laser light source	Imported laser diodes (continuous life up to 100,000 hours)
Vacuum power source	The continuous working flow of the DC air pump is stable, energy saving and environmental protection, high efficiency and low noise
Verification criteria	JJF 1190-2008, GB/T 6167-2007
Relative error of repeatability	≤10%FS
Particle size distribution error	≤30%
Particle concentration indication error	≤±30%FS
Self-cleaning time	≤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 100 sampling areas and save the configuration parameters independently
Number of sampling points	1~50
Number of samples (per point)	1~50
Sampling concentration	35,000 particles/L
Counting mode	Cumulative number, concentration (m <sup>3</sup> )
Data memory capacity	1~5000 sets of measurement data, can be queried, wired export (USB port)
Cleanliness grade judgment criteria	ISO 14644.1, GMP dynamic and GMP static
Operate time	The continuous test time after full charge is more than 4 hours
User management	5 users, independent password
Authority management	Three levels of permission, data storage and retrieval, printing
Source	DC8.5V 4A
Other accessories	Wireless Bluetooth printer, USB cable, charger
Environment	Usage environment: temperature 0~40°C relative humidity 10~70% Storage environment: temperature-30°C~45°C relative humidity 0~90%
Outline dimension	240 long x 135 wide x 68 thick (mm) excluding sampling port
Exterior material	ABS
Weight	0.85kg
Power	Counter (12W), charger (34W)
Quality Assurance	The warranty is 1 year, and optional extended warranty service can be selected



Suzhou Suxin Environmental Technology Co., LTD



One-to-one service



Quality three guarantees



factory direct sale