

# Introduction to filter counting leak detector



model :SX-L310S

SX-L310S is our own 28.3L portable filter counting leak detector with a sampling flow rate of  $28.3\text{L}/\text{min} \pm 5\%$  (i.e., 1 cubic foot CFM).

This instrument is designed for both cleanroom cleanliness testing and high-efficiency air outlet leak detection. It comes with optional audit tracking and features a 7-inch touch-screen display, offering an elegant and modern appearance. The body is made of full SUS304 material and has a sand-blasted finish.

The user-friendly interface is designed to enhance customer experience, making it easy to operate.

It uses a DC brushless fan for continuous, stable, energy-efficient, and environmentally friendly operation.

It can be powered by AC or its built-in high-capacity lithium battery, ensuring mobile testing in areas without AC power.

For GMP verification, this instrument is the preferred choice for rapid testing of cleanroom cleanliness and filter integrity in industries such as biopharmaceuticals, electronics, semi-conductors, and new energy.

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## merit

- Provide a complete verification manual to facilitate compliance with pharmaceutical/electronic specifications
- Built-in thermal printer can print or query in real time
- Reduce operator error, perform long-term data archiving, and support long-term data storage
- Light weight and ergonomic design suitable for one person to operate
- Audit tracking, personnel operation record storage
- Sampling areas and grade standards can be preset
- GMP, 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
- Clean room high efficiency filter integrity test
- Integrity testing of local clean environment high efficiency filter

## function

- Sampling flow rate:  $28.3\text{L}/\text{min} \pm 5\%$  (1.0 CFM)
- Particle size distribution error:  $\pm 30\%$
- Error of indicated concentration:  $\pm 30\%FS$
- Self-cleaning time: less than 10min
- Relative error of repeatability: less than or equal to 10%FS
- Complies with GMP static, GMP dynamic and ISO 14644.1 standards

## apply

- Cleanliness testing of clean room (area)
- Daily maintenance and monitoring of clean rooms in electronics plants and pharmaceutical factories
- High efficiency filter integrity detection
- Measurement of high concentration aerosols (to be used with Su Xin SX-D100 particle diluter)

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parameter

model	SX-L310S
Sampling flow	28.3L/min $\pm 5\%$ (1.0CFM)
Particle size channel	0.3 $\mu$ m, 0.5 $\mu$ m, 1.0 $\mu$ m, 3.0 $\mu$ m, 5.0 $\mu$ m, 10.0 $\mu$ m
laser light source	Laser diode (continuous life up to 100,000 hours)
Import fan	Continuous operation is stable, energy saving and environmental protection
Verification criteria	JJF 1190-2008, GB/T 6167-2007
Relative error of repeatability	$\leq 10\%$ FS
Particle size distribution error	$\leq \pm 30\%$
Particle concentration indication error	$\leq \pm 30\%$ FS
Maximum sampling concentration	35,000 particles /L
Self-cleaning time	$\leq 10$ min (counting is zero for 3 consecutive times within 10 minutes)
Dwell time	User set (1~14400 seconds)
Sampling delay	User set (1~255 seconds)
Number of sampling points	1~50
Number of samples (location)	1~50
Operate time	The continuous test time after full charge is more than 6 hours
Data memory capacity	1~5000 sets of measurement data can be queried
Counting mode	Cumulative number, concentration
Charging adapter	Input 100V-240V 2.5A, output 16.8V 5A
Battery charging time	6 to 8 hours
Cleanliness grade determination standard	ISO 14644.1-1999, GMP dynamic, GMP static
Humiture	apolegamy
Data communication interface	USB
Environment	Usage environment: temperature 0~40°C relative humidity 10~70%RH
	Storage environment: temperature-30~45°C relative humidity 0~90%RH
Outline dimension	Length 315 x width 320 x height 310 (mm)
Material quality	SUS304 stainless steel
Power	Counter (45W), charger (84W)
Weight (including battery)	9kg



Suzhou Suxin Environmental Techn ology Co., LTD



One-to-one service



Quality three guarantees



factory direct sale