Introduction to 0.1μm online dust particle counter

Model: SX-1108

The SX-1108 type particle counter is a new generation of online particle counters developed by our company. It has a flow rate of 28.3L/min±5% (i.e., 1 cubic foot CFM), meeting the standards for online dynamic monitoring and complying with ISO 14644-1:2015 and GMP requirements. This product is designed to meet various cleanroom applications, suitable for routine remote real-time monitoring of cleanrooms. The interactive software guides users through the dynamic monitoring of cleanroom environments according to ISO 14644-1:2015 and GMP appendices.

The monitoring results of the clean room can be displayed on a terminal display via RS485, WiFi, or Ethernet. The robust, chemically resistant (SUS316L) casing is lightweight and portable, with a streamlined design that minimizes particle traps, making the equipment easy to clean. A 24V DC power supply powers the components. An optional external wireless adapter facilitates wireless network communication, simplifying network system integration. Connects to third-party monitoring systems via Modbus TCP/IP or Modbus RTU protocols for remote management of all particle counters within the system.

merit

- Provide a complete verification manual to facilitate compliance with pharmaceutical/electronic specifications
- Through the combination of online monitoring software, real-time monitoring, historical curve, alarm record, data record, audit tracking and other functions can be realized
- It has a 4.3-inch touch screen and can be operated with gloves
- 24V DC power supply for continuous use
- Store samples to reduce operator error
- Use data management software to archive long-term data and support long-term data storage
- Supports WiFi communication for easy data transfer and device control (optional). CSV files can be downloaded for easy data integration
- Interactive software guides users to complete clean room environment monitoring according to ISO 14644-1 and GMP standards
- Alarm value can be set to facilitate fault identification in clean room
- Modbus TCP/IP or Modbus RTU communication protocol can be used to communicate with third-party monitoring systems
- Built-in low noise power source, providing a comfortable working environment
- Download to comply with 21 CFR-11 rules, user configuration privileges, access rights

function

- Provide 28.3L/min(1.0CFM) traffic collection
- Compatible with conventional clean room environment and other clean environment monitoring
- Complies with ISO 14644-1:2015 standard
- Analyze and generate reports in accordance with ISO 14644-1:2015, GMP

apply

- Clean room clean environment testing
- Particle trend analysis
- Statistical process control
- Particle drift accident diagnosis

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model	SX-1108
Particle size channel	0.1μm ,0.2μm, 0.3μm,0.5μm, 1.0μm,5.0μm(standard selection)
Sampling flow	28.3L/min ±5% (1.0CFM)
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	ISO 21501-4:2018,JJF 1190:2008
Relative error of repeatability	≤±10%FS
Particle size distribution error	≤±30%
Particle concentration indication error	≤±30%FS
Counting yield	When 0.1μm, 50% ±20%, and when 0.2μm, 100% ±10%
Self-cleaning time	≤10min (counting is zero for 3 consecutive times within 10 minutes)
Dwell time	Set the range: 1 to 65535 seconds
Sampling delay	Set the range: 1~255 seconds
Number of samples	Range: 1 to 65,535
Channel verification	Each channel DAC can be configured and independently verified
Sampling concentration	35,000 particles /L
Counting mode	Cumulative number, concentration
Data memory capacity	1 to 3 million sets of measurement data, 4G data storage space, can be queried
	Supports modbus query of 20,000 measurement data
Data service	PC terminal software
Communication mode	RS485: Modbus RTU protocol, Ethernet: Modbus TCP/IP protocol
Other optional interfaces	WIFI is optional to support Modbus protocol, USB interface, four-in-one interface, 4 analog or 44-20mA current, LCD display, Alarm buzzer, alarm optocoupler output
Cleanliness grade judgment criteria	ISO 14644-1, GMP dynamic, GMP static
Source	DC24V 2A
Other accessories	RS485 terminals, power adapters
Data communication interface	USB disk export, support Excel table
Three levels of authority	Three levels of permission, data storage and retrieval, printing
Environment	Usage environment: temperature 0~40°C relative humidity 10~70%
	Storage environment: temperature-30°C~45°C relative humidity 0~90%
Outline dimension	Length 255 x width 197 x height 142 (mm) without interface
Exterior material	SUS316L stainless steel
Weight	4.0Kg
Quality Assurance	The warranty is 1 year, and optional extended warranty service can be selected

Suzhou Suxin Environmental Techn ology Co., LTD

One-to-one service   Quality three guarantees   factory direct sale