

2.83L online dust particle counter introduction



ISO14644-2015
GMP



Model: SX-3014E/SX-5014P

Industry:
Electronic special use
pharmaceutical special use

Model: SX-3014UE/SX-5014UP

Industry:
Electronic special
pharmaceutical special

The 2.83L online particle counter meets the standards for online dynamic monitoring, complying with ISO 14644-1:2015 and GMP requirements. This product is designed for various cleanroom applications and is used for routine remote real-time monitoring of clean rooms. The interactive software guides users to perform dynamic monitoring of the clean environment in cleanrooms according to ISO 14644-1:2015 and GMP annexes.

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

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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
- 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 and LORA communication for easy data transmission 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 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 2.83L/min(0.1CFM) 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
- abbr SPC
- Particle drift accident diagnosis

2.83L online dust particle counter introduction



model	SX-3014E (no display)	SX-3014UE	SX-5014P (no display)	SX-5014UP
Particle size channel	0.3μm, 0.5μm, 1.0μm, 5.0μm		0.5μm, 1.0μm, 5.0μm, 10.0μm	
Sampling flow	Imported laser diodes (continuous life up to 100,000 hours)			
laser light source	The continuous working flow of the DC fan is stable, energy saving and			
Vacuum power source	environmental protection, and it is efficient and low noise			
Verification criteria	JJF1190-2008, GB/T6167-2007			
Relative error of repeatability	≤±10%FS			
Particle size distribution error	≤±30%			
Particle concentration indication	≤±30%FS			
Error	≤10min (counting is zero for 3 consecutive times within 10 minutes)			
Self-cleaning time	Set the range: 1 to 65,535 seconds			
Dwell time	Set the range: 1~255 seconds			
Sampling delay	Range: 1 to 65,535			
Number of samples	Each channel DAC can be configured and independently verified			
Channel verification	35,000 particles /L			
Sampling concentration	Cumulative number, concentration			
Counting mode	1~20,000 sets of measurement data, 4G data storage space, can be queried			
Data memory capacity	PC terminal software			
Data service	RS485: Modbus RTU protocol, Ethernet: Modbus TCP/IP protocol			
Communication mode	WIFI/LORA is optional and supports Modbus protocol			
Other optional interfaces	ISO 14644-1, GMP dynamic, GMP static			
Cleanliness level judgment standard power supply	DC24V 1A			
Other accessories	RS485 terminals, power adapter			
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 relative humidity 10~70% storage environment: temperature-30 ~45 relative humidity 0~90%			
Outline dimension	Length 190 x width 80 x height 126.5 (mm) excluding interface			
Exterior material	SUS316L stainless steel			
weight	1.6Kg			
Quality Assurance	The warranty is 1 year, and optional extended warranty service can be selected			

