Liquid Borne Particle Counter

Model **MSLPC6CESWISS** | Brand **Master Science**



Liquid Borne Particle Counter

Are you tired of unreliable particle counting that jeopardizes drug safety and regulatory compliance? As a laboratory researcher or equipment purchaser, you know the frustration of dealing with inconsistent results from high-viscosity, colored, or non-electrolyte samples, not to mention the headaches from environmental factors like altitude affecting your tests.

KEY HIGHLIGHTS

- Time-Saving Automation and Customization
- Dedicated testing programs
- Comprehensive connectivity

Request a Quotation
Contact us for pricing, configuration options and delivery details.

support@themsci.com
www.themsci.com

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Overview

The MSLPC6CESWISS Intelligent Liquid Particle Counter from Master Science eliminates these pain points, delivering high-precision, versatile liquid particle detection that ensures GMP compliance and protects patient safety. Designed specifically for the pharmaceutical, medical device, and packaging industries, this advanced system empowers you to detect insoluble particles in injections, sterile powders, and packaging materials with unmatched accuracy and ease.

With a relative standard deviation (RSD) of less than 2% and accuracy within ±5% of specified values, you get dependable data that meets the stringent 2020 Chinese Pharmacopoeia standards. This precision minimizes risks from particle contamination, ensuring your products pass inspections and safeguard end-users.

Say goodbye to limitations with colored, electrolyte-free, high-viscosity, organic solvent, or oil-based substances. The imported laser light source and compensation circuits guarantee accurate results every time, solving the common issue of sample incompatibility that plagues traditional counters.

Powered by an imported high-pressure injection pump, the system maintains consistent performance regardless of altitude or location. No more adjustments or errors due to geographical factors—perfect for labs in varied settings.

Specialized modes for large infusions, small-volume injections, and drug packaging materials automate conversions and settings, reducing manual effort and errors. Custom channels let you focus on specific particle sizes, streamlining your research and quality control processes.

A color touchscreen with English multi-channel display makes testing intuitive, even for busy teams. Three-level password management and support for 128 operators (expandable) ensure secure, collaborative use without compromising data integrity.

Key Benefits

ENVIRONMENTAL INDEPENDENCE

Time-Saving Automation and Customization

ENGINEERED FOR EXCELLENCE

Built with premium materials and cutting-edge technology, the MSLPC6CESWISS emphasizes precision in every aspect:

Complies directly with the Pharmacopoeia and for insoluble particle size and quantity in injections, sterile powders, and packaging.

High-performance imported laser and compensation circuits for accurate testing of colorless, colored, and electrolyte-free samples.

Imported high-pressure injection pump with adjustable volumes, ideal for high-viscosity samples and unaffected by environmental conditions.

Liquid-contact components crafted from imported 316L stainless steel and PTFE, enabling direct analysis of organic solvents and oils.

Replaceable high-pressure systems to match varying injection volume needs.

Dedicated testing programs
Arbitrary settings for sampling volume, test times, and judgments in large infusions and packaging materials; automatic conversion for small injections to meet pharmacopoeia and international requirements.

Custom mode for selecting channels, including ≥ or interval values across the full particle size range.

Intuitive color touchscreen for fast operation, displaying multi-channel data simultaneously.

Sample name input with automatic storage for up to 1,000 names (expandable).

Comprehensive connectivity
RS232 serial port, USB data copy, and integration with LIMS or dedicated analysis software.

Standalone 3Q certification documents available for validation.

Technical Specifications

PARAMETER	SPECIFICATION
Test Range (Micro Meter)	1 to 500
Compliance (Micro Meter)	for greater than 10 and 25
Drug Packaging Material Channels (Micro Meter)	greater than 5, 10, 25
Injection Volume	greater than 0.1 ml or larger as needed
Counting Range	0 to 9,999,999 particles
Detection Concentration	0 to 10,000 particles/ml
Relative Standard Deviation	RSD less than 2%
Channel Resolution	greater than 95% at 10 (Micro Meter)
Sampling Speed	Processes 5 ml in under 10 seconds and 100 ml in under 3 minutes
Accuracy	Within ±5% of the specified value
Stirring Speed	0 to 2,000 rpm

PARAMETER	SPECIFICATION
Working Temperature	0 to 40°C
Power Supply	AC 220V ±10%, 50 Hz, ≤90W
Instrument Dimensions	420 × 350 × 470 mm
Precision at a Glance	
Full Channel Settings (Micro Meter)	Greater than 5 , 8, 10, 12, 25, 100 (fully customizable to user requirements)

Applications

Safeguarding Quality in Critical Industries

Additional Information

The MSLPC6CESWISS is engineered for laboratories that demand fast, accurate, and repeatable particle analysis. Its high-resolution detection channels, rapid sampling performance, and reliable accuracy ensure confidence in every measurement. These specifications highlight the MSLPC6CESWISS's commitment to precision and efficiency. With exceptional resolution, fast throughput, and consistent accuracy, it delivers the dependable performance required for pharmaceutical, laboratory, and industrial quality-control environments.
Tailored for pharmaceutical particle detection, the MSLPC6CESWISS excels in identifying contamination in injections, sterile powders, and small-volume injections. It verifies filtration rates in infusion equipment like anesthesia bags and precision filters, and ensures compliance for packaging materials such as glass bottles and rubber stoppers. Whether you're in R&D, GMP production, quality control, or third-party testing, this intelligent detector provides the high-precision data you need to protect drug safety and quality.

Robust Data Management for Compliance

- Store up to 1,000,000 records with easy search by sample name, batch, or time.
- Integrated with LIMS software, USB export, and a dot-matrix printer, it simplifies auditing and reporting, alleviating the burden of regulatory documentation.
- User-Friendly Operation
- By tackling these pain points, the MSLPC6CESWISS boosts your lab's productivity, reduces downtime, and helps you achieve faster time-to-market while maintaining the highest standards of pharmaceutical quality control.