Liquid Borne Particle Counter

Model **MSLE100SWISS** | Brand **Master Science**



The MSLE100SWISS Liquid Particle Counter is an advanced, high-precision instrument designed for detecting insoluble particles in various liquid samples. Engineered to meet pharmaceutical, medical, and laboratory standards, it ensures accurate, reliable, and compliant particulate matter analysis.

KEY HIGHLIGHTS

- Additional Information

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

support@themsci.com
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Key Features

Additional Information
? Pharmaceutical & Injection Testing – Fully compliant with USP, CP, EP, JP standards for particulate matter in injections, infusions, and sterile powders. ? Medical Equipment Cleanliness Assessment – Detects contaminants in medical devices, surgical tools, and infusion equipment.

Technical Specifications

PARAMETER	SPECIFICATION
ParameterSpecification	
Particle Size Range2 - 100 µm	
Size Channels24	
Max Detection Concentration10,000 particles/ml	
Accuracy±10%	
RepeatabilityRSD <2% (for particles >1000/ml in 5ml sample)	
Resolution<10% (USP, ISO 21501)	
Syringe Options1ml, 5ml, 10ml*, 25ml	
Sampling Speed20 ml/min*	
Min Sampling Volume0.2ml** (1ml syringe), 0.4ml (standard config)	
Sensor Materials316 stainless steel, quartz glass, PTFE, NBR	

PARAMETER	SPECIFICATION
Power SupplyAC 100-240V, 50/60Hz	
Mixing MethodMagnetic stirrer (adjustable speed)	
Data OutputRS232, USB, built-in thermal printer	
Display7-inch LCD color touchscreen	
Dimensions320(L) × 309(W) × 394(H) mm	
Weight11 kg	
Operating Environment10-40°C, RH 0-95% (non-condensing)	
Software SystemLE-Assistant for data management & reporting	
Unmatched AccuracyHigh-resolution sensors detect particles down to 2µm with precision.	
Regulatory ComplianceFully compliant with USP, ISO, and FDA 21 CFR Part 11 standards.	
User-Friendly InterfaceIntuitive 7-inch touchscreen with real-time monitoring and data analysis.	

Applications

? Filtration Efficiency Testing
Ensures effective particle removal in filtration systems.

? Laboratory Water Quality Control
Identifies insoluble particles in laboratory-grade water samples.

⚙ Oil-Based Liquid Testing
Suitable for testing particle contamination in lubricants and specialty fluids.

Compliance & Validation

- Built-in USP <788>, <789>, and ISO-21501 calibration for industry-standard precision.
- Precision Syringe Sampling
- Ensures consistent and accurate volume control with stable speed.
- Automatic Calibration & Detection
- Intelligent system for performance validation and calibration without manual intervention.
- Advanced Mixing Technology
- Adjustable magnetic stirring for efficient sample homogenization and precise results.
- USB interface for direct paperless data export and built-in thermal printing.
- Secure electronic records and signatures with multi-user management.
- LIMS Integration & Software Support
- Comes with LE-Assistant software for PC control and professional data analysis.
- Smart Automation
- Reduces manual intervention with self-calibrating and automated performance checks.
- Flexible Data Management
- Export data seamlessly to PCs, printers, and lab management systems.
- The MSLE100SWISS Liquid Particle Counter is the ultimate solution for ensuring purity, safety, and compliance in pharmaceutical and medical liquid testing.