

APSS-2000

Automated Parenteral Sampling System



The APSS-2000 syringe sampling system sizes and counts suspended particulate matter in a wide range of liquids and meets or exceeds all current USP, EP, and JP requirements. Recipe functions allow the APSS 2000 to adapt to future regulatory changes.

The APSS-2000 system consists of an SLS-1000 syringe sampler, a LiQuilaz® E Series **light obscuration** spectrometer, and SamplerSight-Pharma software, allowing reports to meet 21 CFR 11 "Electronic Records and Signatures" rulings.



BENEFITS

Defect Reduction

- 100% sample volume for greater accuracy
- A precise sample volume within 0.1 ml is achieved with the syringe sampler, producing repeatable results
- SamplerSight-Pharma software comes with a Validation Information Notebook, providing comprehensive software development documentation and full IQ, OQ, and PQ protocols
- SamplerSight-Pharma complies with FDA 21 CFR 11

User-Friendly

- Reduce operator error and ensure process accuracy with recipes for repeat sample processing to USP, EP, or JP standards
- Automated particle counter calibration wizard for full calibration or routine verification
- Alarm levels for pass/fail criteria ensure quality control

Comprehensive System

- Easy-to-use, pull-down menus
- Security password maintains system integrity
- Particle measurements are reported per ml or per container values
- Small sample volume minimizes waste of expensive product
- Various custom report formats are available

FEATURES

- Sizing capability from 1.5 to 125 μm
- Fifteen user-selectable sizing channels
- Meets and exceeds all USP, EP and JP requirements
- Sample volumes from 0.2 ml to 1 liter
- Adaptors for SVI and IV bag testing
- Automated sensor calibration

APPLICATIONS

- Pharmaceutical parenteral monitoring to USP, EP, JP and FDA standards
- Parts/medical device cleanliness testing
- Laboratory water sampling
- WFI and Purified Water testing
- Filter efficiency testing

Without measurement there is no control.

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specifications

Liquid Sensor	LiQuilaz® E-20P	LiQuilaz® E-15P
Location	Internal to SLS-1000	Internal to SLS-1000
Size range	2 – 125 µm	1.5 – 125 µm
Size channels	15	15
Flow rates	10 or 20 ml/min	10 or 20 ml/min
Volume sampled	100%	100%
Maximum concentration	10,000 per ml*	10,000 per ml*
Sample temperature	50 – 122 °F (10 – 50 °C)	50 – 122 °F (10 – 50 °C)
Zero count level	< 1 count per 10 ml	< 1 count per 10 ml
Capillary size	0.5 x 0.7 mm	0.5 x 0.7 mm
Maximum pressure	25 psi	25 psi
Laser source	Laser diode	Laser diode
Wetted surface materials	Fused Silica, Black Quartz, Teflon, Kel-F®, Kalrez®	Fused Silica, Black Quartz, Teflon, Kel-F, Kalrez
Liquid Sampler	SLS-1000	
Syringe size	1, 5, 10, and 25 ml (10 ml is standard and included)	
Sampling mode	Vacuum	
Minimum sample volume	0.4 ml @ 20 ml/min, 0.2 ml @ 10 ml/min	
Wetted surface materials	Glass, Teflon	
Dimensions (l, w, h)	15 x 9 x 17.1 in (38.1 x 22.9 x 43.4 cm) Including particle counter	
Weight (the particle counter)	30 lb (13.6 kg) Including particle counter	
Power	100 – 240 V, 50 – 60 Hz	
Environment	Temperature 50 – 86 °F (10 – 30 °C)	
Humidity	0 – 98% non-condensing	
Software	SamplerSight Pharma	
Operating system	Windows® XP	
Developer	Particle Measuring Systems	
Test procedure	Software Validation Information Notebook	

*Greater than 90% accuracy (less than 10% coincidence loss) at maximum recommended concentration
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Particle Measuring Systems reserves the right to change specifications without notice.



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