

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-2000 syringe sampler, a LiQuilaz® II 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 0.2 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
- Automated backup scheduling ensures enhanced data integrity

Comprehensive System

- Easy-to-use, pull-down menus
- Active Directory 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
- Electronic report approval

FEATURES

- Particle size 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
- Adapters for SVI and IV bag testing
- Automated sensor calibration
- Plug and play ultrasonic bath and magnetic stirrer options available

APPLICATIONS

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



Without measurement there is no control

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Specifications

Liquid Sensor	LiQuilaz® II E-20P	LiQuilaz® II E-15P
Size Range	2 – 125 µm	1.5 – 125 µm
Location	Internal to SLS-2000	
Size Channels	15	
Flow Rates	10 or 20 ml/min	
Volume Sampled	100%	
Maximum Concentration	10,000 per ml ¹	
Sample Temperature	50 – 122 °F (10 – 50 °C)	
Zero-count Level	< 1 count per 10 ml	
Capillary Size	0.5 x 0.7 mm	
Maximum Pressure	25 psi	
Maximum Sample Viscosity	35 centipoise @ 20 ml/min 50 centipoise @ 10 ml/min	
Laser Source	Laser diode	
Wetted Surface Materials	Fused Silica, Black Quartz, Teflon, Kel-F®, Kalrez®	

¹ Greater than 90% accuracy (less than 10% coincidence loss) at maximum recommended concentration.

Liquid Sampler	SLS-2000
Syringe Size	1, 5, 10, and 25 ml (10 ml is standard and included)
Sampling Mode	Vacuum
Minimum Sample Volume ²	0.4 ml @ 20 ml/min, 0.2 ml @ 10 ml/min
Wetted Surface Materials	Glass, Teflon
Dimensions (H x W x L)	17.1 x 9 x 15 in (43.4 x 22.9 x 38.1 cm) Including particle counter
Weight (Particle Counter)	30 lb (13.6 kg) Including particle counter
Power	100 – 240 V, 50 – 60 Hz
Environment Temperature	Temperature 50 – 86 °F (10 – 30 °C)
Humidity	0 – 98% non-condensing

² Minimum sample volume depends on the sample syringe used.

Software	SamplerSight Pharma
Operating System	Windows® 7, Windows 10 (64 bit)
Developer	Particle Measuring Systems
Test Procedure	Software Validation Information Notebook

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HEADQUARTERS

5475 Airport Blvd
Boulder, Colorado 80301 USA
T: +1 303 443 7100, +1 800 238 1801

Instrument Service & Support
T: +1 800 557 6363

Customer Response Center
T: +1 877 475 3317
E: info@pmeasuring.com

www.pmeasuring.com
info@pmeasuring.com



GLOBAL OFFICES

AUSTRIA
T: +43 512 390 500
E: pmsaustria@pmeasuring.com

BENELUX
T: +32 10 23 71 56
E: pmsbelgium@pmeasuring.com

BRAZIL
T: +55 11 5188 8227
E: pmsbrazil@pmeasuring.com

CHINA
T: +86 21 6113 3600
E: pmschina@pmeasuring.com

FRANCE
T: 33(0)1 60 10 32 96
E: pmsfrance@pmeasuring.com

GERMANY
T: +49 6151 6671 632
E: pmsgermany@pmeasuring.com

ITALY
T: +39 06 9053 0130
E: pmsrl@pmeasuring.com

JAPAN
T: +81 3 5298 8175
E: pmsjapan@pmeasuring.com

KOREA
T: +82 31 286 5790
E: pmskorea@pmeasuring.com

MEXICO
T: +52 55 2271 5106
E: pmsmexico@pmeasuring.com

NORDIC
T: +45 707 028 55
E: pmsnordic@pmeasuring.com

PUERTO RICO
T: +1 787 718 9096
E: pmspuertorico@pmeasuring.com

SINGAPORE
T: +65 6496 0330
E: pmsingapore@pmeasuring.com

SWITZERLAND
T: +41 71 987 01 01
E: pmsswitzerland@pmeasuring.com

TAIWAN
T: 886-3-5525300 Ext: 301
E: pmstaiwan@pmeasuring.com