

# 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® E20P light obscuration spectrometer and SamplerSight-Pharma software, allowing reports to meet 21CFR-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 21CFR-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  $\mu\text{m}$
- 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	10 – 50°C	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 psi	25	25
Laser source	Laser diode	Laser diode
Wetted surface materials	Glass, Teflon®, Buna-N, Stainless Steel, NOA61	Glass, Teflon®, Buna-N, Stainless Steel, NOA61

Liquid Sampler	SLS-1000
Syringe size	1, 5, 10, and 25 ml (10ml 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 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.

### AUTHORIZED REPRESENTATIVE



Particle Measuring Systems Headquarters  
5475 Airport Blvd., Boulder, CO 80301, USA  
(303) 443-7100 1-800-238-1801 FAX: (303) 449-6870  
Instrument Service & Support: 1-800-557-6363  
Customer Response Center: 1-877-475-3317

Particle Measuring Systems China  
Tel: (86) 21-6113-3688  
Email: PMSChina@pmeasuring.com

Particle Measuring Systems Europe  
Tel: 44-1684-581000  
Email: PMSEurope@pmeasuring.com

Particle Measuring Systems Italia  
Tel: 39 06 90530130  
Email: PMSItaly@pmeasuring.com

Particle Measuring Systems Japan  
Tel: 813-5298-8175  
Email: PMSJapan@pmeasuring.com

Particle Measuring Systems Mexico  
Tel: 52-55-2271-5106  
Email: PMSMexico@pmeasuring.com

Particle Measuring Systems Nordic  
Tel: +45 70702855  
Email: PMSNordic@pmeasuring.com

Particle Measuring Systems Puerto Rico  
Tel: 972-306-1040  
Email: PMSPuertoRico@pmeasuring.com

Particle Measuring Systems Singapore  
Tel: 65-6496-0330  
Email: PMSSingapore@pmeasuring.com