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.


**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
## Specifications

### Liquid Sensor
- **LiQuilaz® II E-20P**
  - Size Range: 2 – 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
  - 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: 50 centipoise @ 20 ml/min
  - Laser Source: Laser diode
  - Wetted Surface Materials: Fused Silica, Black Quartz, Teflon, Kel-F®, Kalrez®

- **LiQuilaz® II E-15P**
  - Size Range: 1.5 – 125 µm
  - Location: Internal to SLS-2000

### Liquid Sampler
- **SLS-2000**
  - 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 (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 ºC)
  - Humidity: 0 – 98% non-condensing

### 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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**Notes:**
- Greater than 90% accuracy (less than 10% coincidence loss) at maximum recommended concentration.
- Minimum sample volume depends on the sample syringe used.

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