# Syringe Sampling System

## with LiQuilaz® Particle Counter


The SLS Syringe Sampling System is ideal for applications where precise, small-volume sampling is needed. The system consists of a syringe sampler for either corrosive or non-corrosive liquids, a particle counter for different sizing sensitivities, and software.

A convenient naming system identifies the particle counter installed inside the instrument (see the **Specifications** table).

## BENEFITS

### Cost-Effective

- Small sample volume minimizes waste of expensive product
- Automated system saves time and money
- Compatibility with both corrosive and non-corrosive liquids

### Easy-to-Use

- Menu-driven data collection
- Recipes can be created and retrieved for repeatable system operation with different operators
- Password security maintains system integrity

### Versatile

- Ability to support a wide range of applications
- Programmable particle size thresholds
- Extremely accurate measurements

## APPLICATIONS

- Small volume chemical quality assurance
- Parts cleanliness testing
- Laboratory water sampling
- Pharmaceutical testing for USP compliance
- Industries: semiconductor, pharmaceutical, data storage, medical, aerospace, automotive, hydraulic oils

PARTICLE MEASURING SYSTEMS®

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## with LiQuilaz® Particle Counter

*specifications*

| | SLS-1000 |
|---|---|
| Syringe size | 1, 5, 10 (standard) 25 ml |
| Sampling mode | Vacuum |
| Minimum sample size | 0.4 ml @ 20 ml/min |
| Wetted surface materials | Glass, Teflon® (all Teflon optional) |
| Power | 100 – 240 V, 50 – 60Hz |
| Sample volume | Adjustable using software interface |
| Maximum pressure | 25 psi |
| Dimensions (l, w, h) | 15 x 9 x 17.1 in (38.1 x 22.0 x 43.4 cm) including particle counter |
| Weight | 30 lb (13.6 kg) including particle counter |
| Environment | Temperature: 50 – 86 °F (10 – 30 °C); Humidity: non-condensing |

| | LiQuilaz E15 | LiQuilaz E 20P | LiQuilaz SO2 | LiQuilaz SO3 | LiQuilaz SO5 |
|---|---|---|---|---|---|
| SLS Instrument Label | SLS-2000 | SLS-2000 | SLS-1200 | SLS-1300 | SLS-1500 |
| Size range | 1.5 – 125 µm | 2.0 – 125.0 µm | 0.2 – 2.0 µm | 0.3 – 3.0 µm | 0.5 – 20.0 µm |
| Channels | 15 | | | | |
| Flow rate | 20 ml/min | | | | |
| Sampled % | 100% | | | | |
| Maximum concentration* | 10,000 particles/ml | | | | |
| Zero count | < 50 counts/l | | | | |
| Sample temperature | 50 – 122 °F (10 – 50 °C) | | | | |
| Wetted surface materials | Fused Silica, Black Quartz, Teflon, Kel-F®, Kalrez® | | Sapphire**, Teflon, Kel-F, Kalrez | | |
| Calibration | Materials used are traceable to US National Institute of Standards and Technology (NIST) and Japanese Institute of Standards (JIS). | | | | |
| Software | SamplerSight | | | | |

*Greater than 90% accuracy (less than 10% coincidence loss) at max. recommended concentration.
** Compatible with hydrofluoric acid sampling.
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Particle Measuring Systems, Inc. reserves the right to change specifications without notice.


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