

# Syringe Sampling System

with LiQuilaz® II 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



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*Without measurement there is no control*

# Syringe Sampling System

with LiQuilaz® II 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® (100%-fluoropolymer syringe 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 II<br>E15P   | LiQuilaz II<br>E20P | LiQuilaz II<br>S02                | LiQuilaz II<br>S03 | LiQuilaz II<br>S05 |
|--------------------------|---|---------------------|-----------------------------------|--------------------|--------------------|
| 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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Kel-F® is a registered trademark of 3M.

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