

# 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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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 E15P	LiQuilaz II E20P	LiQuilaz II S02	LiQuilaz II S03	LiQuilaz II 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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## 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: pmssrl@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: pmssingapore@pmeasuring.com

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

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