

# Syringe Sampling System

with LiQuilaz® Particle Counter



The Syringe Sampling System with LiQuilaz particle counter is used to size and count suspended particulate matter in liquids. These systems are 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.

## 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

- 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 process control limits
- 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**

## Liquid Sampler

<b>SLS-1000</b>	
Syringe Size	1,5,10 (standard) 25 mL
Sampling Mode	Vacuum
Minimum sample size	10% of syringe volume
Wetted surface materials	Glass, Teflon® (all Teflon® optional)
Power	100-240 V, 50-60Hz
Sample volume	Adjustable from 0.1 mL to 25 mL
Dimensions (l, w, h)	15"x9"x17.1" (38.1cm x 22.0cm x 43.4cm) including particle counter
Weight	30 lbs. (13.6 kg) including particle counter
Environment	Temperature: 10 - 30°C; Humidity: Non-Condensing.

## Liquid Sensor

	<b>LiQuilaz E20P</b>	<b>LiQuilaz S02</b>	<b>LiQuilaz S03</b>	<b>LiQuilaz S05</b>
Size range	2.0-125.0 µm	0.2-2.0 µm	0.3-3.0 µm	0.5-20.0 µm
Channels	15	15	15	15
Flow rate (ml/min)	20mL/min.	20 mL/min.	20 mL/min.	20 mL/min.
Sampled %	100%	100%	100%	100%
Maximum concentration/mL*	10,000 counts/mL	10,000 counts/mL	10,000 counts/mL	10,000 counts/mL
Zero count	< 50 counts/liter	< 50 counts/liter	< 50 counts/liter	< 50 counts/liter
Maximum psi	25	100	100	100
Sample temperature	10-50°C	10-50°C	10-50°C	10-50°C
Wetted surface materials	Glass, Teflon® stainless steel Buna N, NOA 61	Sapphire**, Kel-F® Teflon®, Kalrez®	Sapphire**, Kel-F® Teflon®, Kalrez®	Sapphire**, Kel-F® Teflon®, Kalrez®
Calibration	Materials used are traceable to U.S. National Institute of Standards and Testing (NIST) and/or 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. Kalrez® is a registered trademark of DuPont. Kel-F® is a registered trademark of 3M Company. Teflon® is a registered trademark of DuPont. LiQuilaz® is a registered trademark of Particle Measuring Systems, Inc. Particle Measuring Systems, Inc. reserves the right to change specifications without notice.

### AUTHORIZED REPRESENTATIVE



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Registration applies to the Boulder, Colorado facility

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