Syringe Liquid Sampler

with UltraChem® 100 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

- Precise particle measurement
- Versatile select various particle sensors and syringe sizes
- Cost-effective
- Easy-to-use
- Small sample volume eliminates sample waste

FEATURES

- Proven PMS UltraChem particle sensors
- Menu-driven data collection 1, 5, 10 and 25 ml
- Wetted materials compatible with corrosive chemicals
- Compact design with on-board particle sensor

APPLICATIONS

- Diverse applications in semiconductor and process chemical manufacturing
- Incoming quality measurement of process chemicals
- Point-of-process monitoring on process tools
- Testing and qualification of chemical components
- · Outgoing chemical qualification testing
- Mechanical parts cleanliness testing

Syringe Liquid Sampler

Specifications

SLS-1100

Syringe size	25 ml
Sampling mode	Vacuum, Batch
Minimum sample size	0.4 ml @ 20 ml/min
Wetted surface materials	Glass, Teflon (all fluoropolymer materials optional)
Power	100 - 240 V, 50 - 60 Hz
Sample volume	Adjustable using software interface
External Dimensions (l, w, h)	15 x 9 x 17.1 in (38.1 x 22.0 x 43.4 cm)
Weight	42 lb (19.1 kg)
Environment	Temperature: 50 – 86 °F (10 – 30 °C) Humidity: Non-Condensing Indoor use only Pollution degree 2 Over-voltages (transients) Category II Ordinary protection (not protected against harmful ingress of moisture) Class I equipment (Electrical earth ground from the mains power source to the product input is required for safety purposes)

- * Greater than 90% accuracy (less than 10% coincidence loss) at max. recommended concentrations.
- ** Compatible with hydrofluoric acid

UltraChem 100

SLS-1100
100 - 500 nm
100, 200, 300, 500 nm
20 ml/min
30% Monitor mode 16% Spectrometer mode 13% High-Scatter mode
3,000 particles/ml, Monitor mode 9,000 particles/ml, Spectrometer mode 15,000 particles/ml, High-Scatter mode
< 50 counts/l
Ambient pressure
Laser diode Class I, complies with US 21 CFR 1040.10 and EN 60825-1. Internally an enclosed Class 4 laser is used per EN 60825-1.
50 - 122 °F (10 - 50 °C)
Sapphire**, Teflon, Kel-F®
Materials used are traceable to National Institute of Standards & Technology (NIST) and/or Japanese Industrial Standards (JIS).
SamplerSight

Kel-F® is a registered trademark of 3M. All other trademarks are the property of their respective owners. Particle Measuring Systems, Inc. reserves the right to change specifications without notice.

©2017 Particle Measuring Systems, Inc. All rights reserved.

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

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

T: +86 21 6113 3600

E: pmschina@pmeasuring.com

FRANCE

T: +33 (0)6 82 99 17 98

E: pmsfrance@pmeasuring.com

GERMANY

T: +49 6151 6671 632

E: pmsgermany@pmeasuring.com

T: +39 06 9053 0130

E: pmssrl@pmeasuring.com

JAPAN

T: +81 3 5298 8175

E: pmsjapan@pmeasuring.com

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

