Liquilaz® II S Series

Particle Counting Spectrometer for Liquids

High-precision analysis for most process chemicals

100% sample volumes (up to 80 ml/min)

Without measurement there is no control®

The LiQuilaz® II S series optical particle counters are volumetric particle counters with a variety of sizing sensitivities as low as 0.2 μ m. They provide high-precision analysis for most process chemicals, including hydrofluoric acid and hot corrosive chemicals up to 306 °F (150 °C).

LiQuilaz II sensors provide the same levels of accuracy, reliability and repeatability that customers have trusted for many years. LiQuilaz II sensors feature both RS-485 and Ethernet network communications. The new Ethernet capability increases product flexibility and makes installation significantly easier.

Volumetric particle counters offer the highest precision possible by measuring 100% sample volumes (up to 80 ml/min) so that short sampling intervals can be utilized without sacrificing statistical significance.



Yield Improvement

- Real-time characterization and analysis of particle contamination allows for immediate response to contamination
- Volumetric measurements provide greater accuracy for tighter process control
- Optional software makes process control easy with alarm settings, status conditions, sampler setup, and online help

Versatile

- Supports a wide range of applications and fluids
- · In-line and batch sampling capabilities
- Works with compression or syringe samplers
- Compatible with various tubing standards
- RS-485 and Ethernet networking compatibility

User-Friendly

- Small footprint for easy placement anywhere in the process
- Flexible software provides numerous viewing options for real-time or retrieved data
- User-selectable particle size thresholds

FEATURES

- 0.2 -3.0 μm size range
- $80 \pm 10\%$ ml/min flow rate (50 ml/min $\pm 10\%$ for S02)
- Compatible with a wide range of process chemicals
- Small footprint for easy placement anywhere in the process
- User-selected particle size thresholds

APPLICATIONS

- Effervescent chemical measurements using compression sampling
- Chemical quality assurance
- · Process bath monitoring
- DI water monitoring
- Chemical delivery systems
- · Photoresist monitoring



Liquilaz® II S Series

Particle Counting Spectrometer for Liquids

Specifications

MODEL	LiQuilaz II S02	LiQuilaz II S03	LiQuilaz II S05
Size range	0.2 – 2.0 μm	0.3 – 3.0 μm	0.5 – 20.0 μm
Flow rate	50 ± 10% ml/min	80 ± 10% ml/min	80 ± 10% ml/min
	20 ± 10% mL/min available for all S series models for sampler applications		
Zero count	≤ 25 counts/liter	≤ 15 counts/liter	≤ 15 counts/liter
Sample volume	Volumetric 50 ml/min (100%)	Volumetric 80 ml/min (100%)	Volumetric 80 ml/min (100%)
Maximum concentration ¹	10,000 particles/ml		
Channels	User adjustable from 1 to 15		
Sample temperature	32 – 302 °F (0 – 150 °C)		
Pressure range	0 - 100 psi		
Wetted surface materials	Sapphire, Teflon®, Kalrez® 4079 and Kel-F®		
Communications	Ethernet (10/100BaseT), Modbus TCP, PMS Ethernet Protocol, 5-wire, RS-485, DE9 connectors, PMS serial communications protocol		
Operating environment	Temperature: 10 - 35 °C (50 - 95 °F) Humidity: non-condensing		
External Dimensions (l, w, h)	12.75 x 4.25 x 4.5 in (32.4 x 10.8 x 11 .4 cm)		
Weight	6.1 lb (2.8 kg)		
Power	AC: 100 - 240 VAC 50/60Hz, 0.75 A DC: 24 VDC ± 10% AC input voltage fluctuation shall not exceed +/-10%		
Laser source	Laser diode		
Calibration	Materials used are traceable to U.S. National Institute of Standards and Technology (NIST) and/or Japanese Institute of Standards (JIS)		

¹ Less than 10% coincidence loss at maximum recommended concentration.

SOLUTIONS FOR YOUR INDUSTRY

Scan or click to learn more about our products!



HEADQUARTERS

Boulder, Colorado 80301 USA T: +1 303 443 7100

Instrument Service & Support T: +1 303-443-7100 ext 447

Service and Calibration

E: workorders@pmeasuring.com

Technical Support

E: techsupport@pmeasuring.com

Software or System Support

E: ssupport@pmeasuring.com

Customer Service and Order Processing E: customerorders@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 44 589 3498

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 0342

E: pmssingapore@pmeasuring.com

SWITZERLAND

T: +41 71 987 01 01

E: pmsswitzerland@pmeasuring.com

ΤΔΙΜΔΝ

T: 886-3-5525300 Ext: 301

E: pmstaiwan@pmeasuring.com

