

LiQuilaz[®]

Particle Counting Spectrometer for Liquids



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

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.

BENEFITS

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
- Works with compression or syringe samplers
- Compatible with various tubing standards
- In-line and batch sampling capabilities
- RS-485 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

APPLICATIONS

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



**PARTICLE
MEASURING
SYSTEMS[®]**
pmeasuring.com

Without measurement there is no control

LiQuilaz®

Particle Counting Spectrometer for Liquids

Specifications

	LiQuilaz S02	LiQuilaz S03	LiQuilaz S05
Size range	0.2 – 2.0 µm	0.3 – 3.0 µm	0.5 – 20.0 µm
Channels	15		
Flow rate	50 ± 10% ml/min	80 ± 10% ml/min	80 ± 10% ml/min
Sample volume	Volumetric 50 ml/min (100%)	Volumetric 80 ml/min (100%)	Volumetric 80 ml/min (100%)
Maximum concentration*	10,000 particles/ml		
Sample temperature	50 – 306 °F (10 – 150 °C) Sulfuric acid: max. 212 °F (100 °C)		
Zero count	< 25 counts/liter	< 15 counts/liter	< 15 counts/liter
Maximum pressure	100 psi		
Laser source	Laser diode		
Wetted surface materials	Teflon®, Kel-F®, sapphire, Kalrez® 4079		
Dimensions (l, w, h)	13 x 4 x 5 in (32 x 10 x 11.5 cm)		
Weight	6 lb (2.7 kg)		
Power	85 – 132 V or 220 – 240 V, 50 – 60 Hz	85 – 250 V, 50 – 60 Hz	85 – 250 V, 50 – 60 Hz
Communications	RS-485		
Calibration	Materials used are traceable to U.S. National Institute of Standards and Technology (NIST) and/or Japanese Institute of Standards (JIS)		
Environment	Temperature: 50 – 95 °F (10 – 35 °C); Humidity: non-condensing		

*Greater than 90% accuracy (less than 10% coincidence loss) at maximum recommended concentration.

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

BRAZIL
T: +55 11 5188 8227
E: pmsbrazil@pmeasuring.com

CHINA
T: +86 21 6113 3600
E: pmschina@pmeasuring.com

LiQuilaz® is a registered trademark of Particle Measuring Systems, Inc.
Teflon® is a registered trademark of The Chemours Company, FC, LLC.
Kalrez® is a registered trademark of DuPont.
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.
© 2016 Particle Measuring Systems, Inc.
All rights reserved.

FRANCE
T: +33 (0)6 82 99 17 98
E: pmsfrance@pmeasuring.com

GERMANY
T: +49 6151 6671 632
E: pmsgermany@pmeasuring.com

ITALY
T: +39 06 9053 0130
E: pmsrl@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



**PARTICLE
MEASURING
SYSTEMS®**

SINGAPORE
T: +65 6496 0330
E: pmsingapore@pmeasuring.com

SWITZERLAND
T: +41 71 987 01 01
E: info@cas.ch

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

UNITED KINGDOM
T: +44 1684 581 000
E: pmsemea@pmeasuring.com