



# Artisan Scientific

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# 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 microns. They provide high precision analysis for most process chemicals, including hydrofluoric acid and hot corrosive chemicals up to 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

#### Easy to Use

- 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



**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 $\mu\text{m}$	0.3-3.0 $\mu\text{m}$	0.5-20.0 $\mu\text{m}$
Channels	15		
Flow rate (ml/min.)	50 mL/min. $\pm$ 10%	80 mL/min. $\pm$ 10%	80 mL/min. $\pm$ 10%
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	10 - 150°C: Sulfuric acid 100°C maximum		
Zero count	< 25 counts/liter	< 15 counts/liter	< 15 counts/liter
Maximum pressure	100 psi		
Laser source	Laser diode		
Wetted surface materials	Teflon <sup>®</sup> , Kel-F <sup>®</sup> , sapphire, Kalrez <sup>®</sup> 4079		
Dimensions (l, w, h)	13 x 4 x 5 inches (32 x 11 x 11 cm)		
Weight	6 lbs. (3 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 Testing (NIST) and/or Japanese Institute of Standards (JIS).		
Environment	Temperature: 10-35°C Humidity: non-condensing		

\*Greater than 90% accuracy (less than 10% coincidence loss) at maximum recommended concentration.  
Kalrez<sup>®</sup> is a registered trademark of DuPont Performance Elastomers.  
Kel-F<sup>®</sup> is a registered trademark of the Minnesota Mining & Manufacturing Company.  
Teflon<sup>®</sup> is a registered trademark of DuPont.  
LiQuilaz<sup>®</sup> is a registered trademark of Particle Measuring Systems, Inc.

\*Specifications are subject to change without notice.



Registration applies to the Boulder, Colorado facility.



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### AUTHORIZED REPRESENTATIVE



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