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Find the *Particle Measuring Systems LiQuilaz SO5* at our website: *Click HERE*

# 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*

PARTICLE MEASURING SYSTEMS
www.pmeasuring.com

***Without measurement, there is no control.***

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# 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 (ml/min.) | 50 mL/min. ± 10% | 80 mL/min. ± 10% | 80 mL/min. ± 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®, Kel-F®, sapphire, Kalrez® 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® is a registered trademark of DuPont Performance Elastomers.
Kel-F® is a registered trademark of the Minnesota Mining & Manufacturing Company.
Teflon® is a registered trademark of DuPont.
LiQuilaz® is a registered trademark of Particle Measuring Systems, Inc.

*Specifications are subject to change without notice.

CE BSI FM 40574 Registration applies to the Boulder, Colorado facility.

**AUTHORIZED REPRESENTATIVE**

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