

LiQuilaz[®] UL1604 Compatible Particle Counters

Liquid Optical Particle Counter

LiQuilaz[®] UL1604 compatible particle counters allow continuous, real-time monitoring of fluid particle contamination levels in Class I, Div II environments. Reduce costs with particle counters that can be installed without modification into these critical monitoring areas. Volumetric sampling with sizing sensitivities as low as 0.2 μm reduces sample time required to achieve statistical significance. Easily integrates into Facility Net software to provide an economical way to monitor multiple flow systems.



BENEFITS

Cost Effective

- Packaged for easy installation into Class I, Div II environments
- Particle measurements for solvents, chemicals, and DI water
- Simplify data analysis by using the same sensor throughout all of your fabs
- Optimize sensor selection for specific chemical requirements
- Low initial capital investment because packaging has already been completed
- Sealed package protects sensor from accidental chemical spills
- High resolution volumetric particle counter for improved accuracy and tighter process control

Use with Facility Net Software

- RS-485 communication protocols
- Data time plots for simplified data interpretation
- Alphanumeric paging and emailing functions to alert operators to out of tolerance conditions

FEATURES

- Sensitivity to 0.2 μm
- 15 user-adjustable sizing channels
- Volumetric: 100% view volume
- Sealed enclosure
- Sample volumes to 80 mL/min
- Compatibility with most process chemicals and solvents

APPLICATIONS

- Qualify particle concentrations in flammable solvents
- Monitor chemical delivery systems
- In-line measurements in recirculating baths
- Quality assurance
- Continuous monitoring for process improvement

Without measurement, there is no control.

Specifications

LiQuilaz UL1604

LiQuilaz SO2

Size range:	0.2-2.0 µm
Size channels:	15
Flow rate:	50 mL/min.
Sample volume:	Volumetric 50 mL/min. (100%)
Maximum concentration*:	10,000 particles/mL
Sample temperature:	10-150°C; Sulfuric acid 100°C maximum
Zero count:	<25 cts/L
Maximum pressure:	100 psi
Laser source:	Laser diode
Wetted surface materials:	Teflon®, Kel-F®, Sapphire, Chemraz® 570 O-Ring
Dimensions (l, w, h):	Fiberglass: 19 x 13 x 9 in. (48 x 33 x 23 cm) Stainless Steel: 18 x 16 x 9 in. (46 x 41 x 23 cm)
Weight:	Fiberglass: 10 lbs (4.5 kg) Stainless Steel: 19 lbs (8.6 kg)
Power:	85-132 V, 220-240 V
Communications:	RS-485
Calibration:	Materials used are traceable to USA NIST
Environment:	Temperature: 10-35°C Humidity: non-condensing

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

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Kel-F® is a registered trademark of 3M.

Teflon® is a registered trademark of DuPont.

Chemraz® is a registered trademark of Greene Tweed and Co.

Particle Measuring Systems, Inc. reserves the right to change specifications without notice.

AUTHORIZED REPRESENTATIVE



Registration applies to the Boulder, Colorado facility



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