

Liquilaz® II E Series

Particle Counting Spectrometer for Liquids

Designed for intuitive and reliable portable particle counting

Meets the latest data integrity requirements

Without measurement there is no control®

The LiQuilaz® II E series optical particle counters are volumetric particle counters with sizing sensitivities from 1.5 – 125 µm.

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 so that short sampling intervals can be utilized without sacrificing statistical significance.



BENEFITS

Yield Improvement

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

Versatile

- Supports a wide range of applications and fluids
- E15P and E20 are available for online use
- E15P and E20P are available for use with syringe samplers
- Online and batch sampling capabilities
- RS-485 and Ethernet networking compatibility
- Ethernet TCP/IP communication
- Supports 21 CFR Part 11 in combination with SamplerSight Pharma software

Easy to Use

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

FEATURES

- Sizing sensitivities from 1.5 – 125 µm
- 15 user-adjustable sizing channels
- Volumetric: 100% view volume
- Facility Net, SamplerSight, Pharmaceutical Net, or SamplerSight Pharma
- Compact system
- Compatible with 3rd party systems using RS 485 Modbus protocol

APPLICATIONS

- Pharmaceutical WFI, PW performance verification
- Medical device cleanliness testing
- Parenteral sampling
- Detect abrasive particles
- Continual process improvements
- USP 788-1788 compliance with the SLS sampler family

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Specifications

MODEL	LiQuilaz II E20P	LiQuilaz II E20	LiQuilaz II E15P
Size range	2 – 125 µm	2 – 125 µm	1.5 – 125 µm
Flow rate	20 ± 10% ml/min	70 ± 10% ml/min	20 ± 10% ml/min
Sample volume	Volumetric 20 ml/min (100%)	Volumetric 70 ml/min (100%)	Volumetric 20 ml/min (100%)
Size channels	User adjustable from 1 to 15		
Resolution	Less than 10% at 10 µm		
Maximum concentration*	10,000 particles/ml		
Sample temperature	50 – 122 °F (10 – 50 °C)		
Zero count	< 50 counts/liter		
Pressure range	0 - 100 psi		
Wetted surface materials	Fused silica, black quartz, Kalrez [®] and Kel-F [®]		
Liquid connections	3 mm flare or 1/4-inch Flaretek [®]		
Communication modes	5-wire, RS-485, DE9 connectors, PMS serial communications protocol, 10/100BaseT Ethernet, PMS Ethernet Protocol, Modbus TCP		
Operating environment	Temperature: 10 - 35 °C (50 - 95 °F) Humidity: 5 - 95% RH 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, 2.5 A		
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)		
Calibration fluid	DI water		

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

SOLUTIONS FOR YOUR INDUSTRY

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BUSINESS AMBITION FOR 1.5°C



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