

LiQuilaz[®] E15, E20, E20P

Particle Counting Spectrometer for Liquids

Without measurement there is no control.



The LiQuilaz E15, E20, and E20P optical particle counters are volumetric particle counters with sizing sensitivities from 1.5 – 125 μm .

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
- E15 and E20 are available for online use
- E15 and E20P are available for use with syringe samplers
- Online and batch sampling capabilities
- RS-485 networking compatibility
- FDA 21 CFR Part 11 compliant

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

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
- Pharma software
- Compact system

APPLICATIONS

- Pharmaceutical WFI, PW performance verification
- Medical device cleanliness testing
- Parenteral sampling
- Detect abrasive particles
- Continual process improvements

LiQuilaz® E15, E20, E20P

Particle Counting Spectrometer for Liquids

specifications

	LiQuilaz E20, E20P	LiQuilaz E15
Size range	2 – 125 µm	1.5 – 125 µm
Size channels	15	15
Flow rate (ml/min)	70 ml/min (E20) or 20 ml/min (E20P)	20 ml/min
Sample volume	Volumetric; 70 ml/min (E20) or 20 ml/min (E20P)	Volumetric; 20 ml/min
Maximum concentration ¹	10,000 particles/ml	
Sample temperature	50 – 122 °F (10 – 50 °C)	
Zero count	< 50 counts/l	
Maximum pressure	200 psi	
Laser source	Laser diode	
Wetted surface materials	Fused Silica, Black Quartz, Teflon®, Kel-F®, Kalrez®	
Dimensions (l, w, h)	13 x 4 x 5 in (32 x 11 x 11 cm)	
Weight	6 lb (3 kg)	
Power	85 – 250 V, 50 – 60 Hz	
Communications	RS-485	
Calibration	Materials used are traceable to USA NIST (National Institute of Standards and Technology) and/or Japanese Institute of Standards (JIS)	
Environment	Temperature: 50 – 95 °F (10 – 35 °C); Humidity: Non-condensing	

¹Greater than 90% accuracy (less than 10% coincidence loss) at maximum recommended concentration.

LiQuilaz® is a registered trademark of Particle Measuring Systems, Inc.

All other trademarks are the property of their respective owners.

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

Headquarters

5475 Airport Blvd, Boulder, CO 80301, USA
Tel: +1 303 443 7100, +1 800 238 1801
FAX: +1 303 546 7380

Instrument Service & Support

+1 800 557 6363

Customer Response Center

+1 877 475 3317

www.pmeasuring.com
info@pmeasuring.com



**PARTICLE
MEASURING
SYSTEMS**

Global Offices

Particle Measuring Systems **Brazil**
Tel: +55 11 5188 8227
pmsbrazil@pmeasuring.com

Particle Measuring Systems **China**
Tel: +86 21 6113 3600
pmschina@pmeasuring.com

Particle Measuring Systems **France**
Tel: +33 (0)6 82 99 17 98
pmsfrance@pmeasuring.com

Particle Measuring Systems **Germany**
Tel: +49 6151 6671 632
pmsgermany@pmeasuring.com

Particle Measuring Systems **Italy**
Tel: +39 06 9053 0130
pmsrl@pmeasuring.com

Particle Measuring Systems **Japan**
Tel: +81 3 5298 8175
pmsjapan@pmeasuring.com

Particle Measuring Systems **Korea**
Tel: +82 31 286 5790
pmskorea@pmeasuring.com

Particle Measuring Systems **Mexico**
Tel: +52 55 2271 5106
pmsmexico@pmeasuring.com

Particle Measuring Systems **Nordic**
Tel: +45 707 028 55
pmsnordic@pmeasuring.com

Particle Measuring Systems **Puerto Rico**
Tel: +1 787 718 9096
pmspuertorico@pmeasuring.com

Particle Measuring Systems **Singapore**
Tel: +65 6496 0330
pmsingapore@pmeasuring.com

Particle Measuring Systems **UK**
Tel: +44 1684 581 000
pmsemea@pmeasuring.com