

Lasair® III

Aerosol Particle Counter Models 310C, 350L, 5100



The Lasair III particle counter sets the new standard for aerosol particle counters. The on-board Pulse Height Analyzer (PHA) ensures ISO 21501 compliance. The large IR touch screen controls and intuitive user interface make the system very easy to use. The particle counter's rugged enclosure is chemically resistant and lightweight for portability. The enclosure also has a streamlined design that minimizes particle traps and makes the unit easy to clean.

BENEFITS

- ISO 21501 compliant with built-in Pulse Height Analyzer (PHA)
- 100 LPM, 50 LPM or 1 CFM flow rates available
 - 100 LPM flow samples 1m³ in 10 minutes
- Large IR touch screen for simplified use
- Quiet pump improves work environment
- Calculates and creates reports for ISO 14644-1 and EC GMP Annex #1
- Comprehensive validation manual makes it easy to meet pharmaceutical regulatory requirements
- Operates in cleanrooms via a web browser:
Setup, sample, display, print, download data
- Choose from nine languages for display and printout
- Removable batteries with optional external charger for continuous mobile use
- Stores sampling recipes to reduce operator errors

APPLICATIONS

- Cleanroom monitoring
- Facility certification for ISO or EC GMP
- Trend analysis
- Statistical process control
- Troubleshooting particle excursions
- Manifold compatible
- Portable or dedicated use

Lasair® III

Aerosol Particle Counter Models 310C, 350L, 5100

specifications

	310C	350L	5100
Channels	0.3, 0.5, 1.0, 5.0, 10.0, 25.0 μm	0.3, 0.5, 1.0, 5.0, 10.0, 25.0 μm	0.5, 1.0, 2.0, 5.0, 10.0, 25.0 μm
Flow rate	1.0 CFM (28.3 LPM) \pm 5%	50 LPM \pm 5%	100 LPM \pm 5%
Calibration	Particles are traceable to U.S. National Institute for Standards and Technology (NIST) and Japanese Industrial Standards (JIS)		
Maximum concentration	> 375,000/ft. ³	> 350,000/ft. ³	> 200,000/ft. ³
Counting efficiency	50% \pm 10% for most sensitive threshold (Exceeds JIS standards)		
Zero count	Meets JIS standards		
Data storage	3000 complete data sets. Data cannot be edited or altered meeting 21 CRF compliance.		
Communication modes	Ethernet or RS-232; USB data downloading; optional wireless Ethernet		
Controlling software	Facility Net, Pharmaceutical Net, Microsoft® Internet Explorer 5.0+		
Remote operation	Remote web browser operation; real-time download to Facility or Pharmaceutical Net; USB download		
Reports	USB reports; sample printouts; cleanroom certification reports for ISO and EC GMP; averaging		
Environmental sensors	Four 4-20 mA inputs		
Languages	English, French, German, Italian, Japanese (Kanji), Korean, Mandarin Chinese (Traditional or Simplified), Spanish, Russian		
Display and Printer	8.4" color VGA display (640 x 480); IR touch screen (IP65 rated); built-in thermal printer		
External surface	Polyphenylene Sulfide (PPS) with Carbon Nano Tubes		
Enclosure cleaning materials	Bleach, formaldehyde, ethyl/isopropyl alcohol, peroxide/quaternary ammonium solutions		
Sample tubing	Tubing ID: 3/8" 8m max. length	1/2" 8m max. length	3/4" 8m max. length
Sample output filtering	Internally filtered to HEPA standards (> 99.97% at 0.3 μm)		
Power and Battery	85-264 V, 50-60 Hz; Lithium battery: operation 4 hrs. (single) 8 hrs. (dual) for 1 CFM unit		
Dimensions (h, w, d)	12 x 13 x 10 inch (30x 33 x 26 cm)		
Weight	13 lbs. (5.9 kg) without battery, 16 lbs. (7.3 kg) with two optional batteries		
Operating environment	Temperature: 0-30°C; Humidity: 5-95% RH non-condensing		

Lasair® is a registered trademark of Particle Measuring Systems, Inc.
 Microsoft® is a registered trademark of Microsoft Corporation.
 U.S. and foreign patents pending.
 Particle Measuring Systems, Inc. reserves the right to change specifications without notice.



Registration applies to the Boulder, Colorado facility.



Particle Measuring Systems Headquarters
 5475 Airport Blvd., Boulder, CO 80301
 1-303-443-7100 1-800-238-1801 Fax: 1-303-546-7331
 Instrument Service & Support: 1-800-557-6363
 Customer Response Center: 1-877-475-3317

Particle Measuring Systems Europe
 Tel: +44 1684 581000
 PMSEurope@pmeasuring.com

Particle Measuring Systems Japan
 PMSJapan@pmeasuring.com

Particle Measuring Systems Asia Pacific
 PMSAsiaPacific@pmeasuring.com

Particle Measuring Systems Singapore
 Tel: +65-6496 0330
 PMSSingapore@pmeasuring.com

Particle Measuring Systems China
 PMSChina@pmeasuring.com

Particle Measuring Systems Mexico
 PMSMexico@pmeasuring.com

Particle Measuring Systems Puerto Rico
 PMSPuertoRico@pmeasuring.com

AUTHORIZED REPRESENTATIVE