LASAIR® II

Models 310A, 310B, 510A

The LASAIR II from Particle Measuring Systems provides complete features in a compact, convenient particle counter. Its great portability, ease of use, and chemically-resistant, easy to clean cover have made it the de facto particle monitoring standard for pharmaceutical and high tech industries.

BENEFITS

Reduce Defects

- Use as a portable counter to localize source of particles
- Real-time measurement of defect-causing particles
- Patented sample-flow control gives more accurate measurements, eliminating errors associated with manifold sampling

Increase Productivity

- Download via optional USB port
- Stores sampling recipes, reducing labor and errors
- Calculations and reports for ISO 14644-1, FS-209E, or EC GMP testing
- Comprehensive validation manual makes it easier for pharmaceutical to meet regulatory requirements
- Can operate in cleanroom from office PC via web browser: Set-up, sample, display, print, download data, update software
- Removable battery with optional external charger for continuous mobile use
- Quiet pump improves work environment
- Choice of 9 languages for display and printouts

Cost Effective

- Easy to clean/wipe down; designed to minimize particle traps
- Rugged, chemical-resistant, ESD-minimizing KYDEX® casing
- Longer life pump eliminates annual vane replacement
- Diode laser for reduced maintenance

FEATURES

- Compact, convenient, lightweight
- Only 15.5 lb. (7.0 kg) with battery
- Sizing sensitivities from 0.3 - 25.0 µm
- Meets JIS accuracy standards
- Stores 3,000 samples
- Integrates up to 6 external analog sensors
- Provides range of data communications options
- Controllable from PC web browser
- Built-in thermal printer
- Large, color LCD for higher visibility, more data displayed
- NiMH battery affords 4 - 7 hours of use

APPLICATIONS

- Cleanroom monitoring
- Facility certification
- Trend analysis
- Statistical process control
- Troubleshooting
- Manifold compatible
- Portable or dedicated use

Without measurement, there is no control.

PARTICLE MEASURING SYSTEMS
www.pmeasuring.com

Specifications

LASAIR II	310A	310B	510A
Channel thresholds:	0.3, 0.5, 1.0, 5.0, 10.0, 25.0 µm	0.3, 0.5, 1.0, 3.0, 5.0, 10 µm	0.5, 1.0, 2.0, 5.0, 10.0, 25.0 µm
Flow rate:	28.3 LPM (1 CFM) with ±5% accuracy		
Laser source:	Laser diode		
Calibration:	Materials traceable to US National Institute for Standards and Technology (NIST)		
Maximum concentration @ 5% coincidence loss:	> 375,000/ft^3	>375,000//ft^3	> 425,000/ft^3
Counting efficiency, sizing accuracy:	Manufactured units meet ISO 13323-2 standards		
Zero count level:	Meets JIS standard		
Data storage:	3,000 data sets (includes particle and environmental data, plus location, time, etc.). Cannot be altered		
Communication modes:	Ethernet or RS-232; optional 4-20 mA output board; optional wireless Ethernet; optional USB download		
Controlling software:	Facility Net, Pharmaceutical Net, Microsoft® Internet Explorer Rev. 5.0+		
Remote operation:	Use web browser to operate unit, save/load recipes; real-time download to Facility Net, Pharmaceutical Net		
Environmental sensors:	Temp/RH probe, plus integrates 4 external environmental sensors via 4-20 mA inputs		
Display:	1/4 VGA color LCD screen		
Languages:	English, French, German, Italian, Japanese (Kanji), Korean, Mandarin (Classical or Simplified), Spanish		
Printer:	Built-in thermal printer		
Reports:	Sample printouts; cleanroom certification reports for ISO, FS 209, EC GMP, or British Stds; averages of multiple runs; print on alarm; sampling configuration		
Key software features:	Recipes; pharm mode; scheduled sampling; historical data filtering, sorting and review; password protection		
External surface:	ESD-minimizing KYDEX chassis, polyester display screen, and zinc-plated steel bottom		
Cleaning materials:	Bleach, formaldehyde, ethyl/isopropyl alcohol, peroxide/quaternary ammonium solutions		
Sampling tubing:	Tubing ID: 3/8 in. Maximum tubing length: 10 ft. (3 M)		
Sample output filtering:	Internally filtered to HEPA standards (>99.97% @ 0.3 µm)		
Power:	85-264 V, 50-60 Hz		
Battery:	NiMH; expected operation 4-7 hrs. External recharge: 2-3 hrs. Internal recharge (@ 24° C): 80% by 4 hrs., 100% by 5-10 hrs.		
Dimensions (h, w, d):	11.5 x 10.7 x 9.0 in (29 x 27 x 23 cm)		
Weight:	12 lb. (5.4 kg) without battery; 15.5 lb. (7.0 kg) with optional battery		
Operating environment:	Temperature: 15-35° C, Humidity: 10-85% non-condensing		

Accessories

Included: Printer paper, Operations Manual, sample probe, probe adapters, sample tubing, zero count filter, power cord, spare fuse.
Optional: USB data download, battery, external battery charger, external filter, HHIPA, hand-held/tripod/wall-mountable isokinetic sampling probe, tripod, temperature and relative humidity probe, air velocity probe, differential pressure probe, 4-20 mA data output board, TouchRAM wand and buttons.

AUTHORIZED REPRESENTATIVE

CE

ISO 9001:2000
FM 40574

Registration applies to the Boulder, Colorado facility

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