

Lasair[®] Pro

Aerosol Particle Counter, No Wireless Communication Option

Designed for intuitive and reliable portable particle counting

Without measurement there is no control[®]



For use in ultra-high security cleanrooms, PMS has introduced a Lasair Pro 310 model specifically designed without any radio frequency (RF) wireless communication capabilities. This specific product part SKU will not contain any hardware or firmware to enable Bluetooth, WiFi, or NFC capability and offers the same industry leading features of the PMS Lasair Pro 310 with 1.0 CFM sample rate measuring particles $\geq 0.3 \mu\text{m}$ in up to 8 configurable channels.

The Lasair[®] Pro product line is designed with the latest technology as a complete contamination control solution. The multi-gesture touchscreen interface menu guides users through logical navigation for intuitive learning. Sampling configuration and data handling is efficient and reliable and can be remotely managed over Ethernet or USB data download.

BENEFITS

- Portable, continuous operation
- Easy to clean polycarbonate exterior
- Reduced operator errors with pre-set recipes
- Long-term data archive with DataAnalyst software
- VHP-resistant enclosure and HEPA-filtered exhaust
- Audit trail meets latest data integrity requirements
- Comprehensive validation manual (optional)

FEATURES

- 8.4-inch SVGA color touchscreen compatible with gloves
- 21 CFR Part 11 compliant audit trail with 20,000 recorded activities
- Up to 100 configurable users with three (3) privilege groups (administrator, supervisor, operator)
- Up to 1,000 configurable locations organized by area, room, and location hierarchy
- Up to 100 configurable recipes
- Rechargeable lithium ion batteries for portable use
- Optional thermal printer

APPLICATIONS

- Cleanroom monitoring
- Facility certification for ISO 14644-1:2015, EU GMP, China GMP, FS 209E
- Trend analysis
- Statistical process control
- Troubleshooting particle excursions
- Manifold compatible
- Portable or dedicated use

Contact your local PMS Sales representative

with any questions or to receive a quote as well as for a full Letter of Volatility for any Lasair Pro product line variant.

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Specifications

MODEL	310 (P/N 10141012X)	310 (P/N 10141002X)
Size range	0.3 - 25.0 µm	
Flow rate	28.3 LPM (1.0 CFM) ±5%	
Zero count	< 7.07 counts / m ³	
Maximum concentration ¹	> 42,924,662 / m ³	
Channels	Up to 8 configurable channels. Optional 2-channel pharmaceutical mode.	
Counting efficiency	50% ±20% for most sensitive channel. ISO 21501-4:2018 compliant.	
Tubing length	Maximum 8 meters	
Compressed gas	Air (CDA), Argon (Ar), carbon dioxide (CO ₂), nitrogen (N), or customized density. Requires HPD III accessory.	
Display and printer	8.4-inch color SVGA display, p-cap with finger swipe and gesture control Optional built-in thermal printer with paper cutter. Supports cleanroom paper.	8.4-inch color SVGA display, p-cap with finger swipe and gesture control No printer
Exterior surface	Polycarbonate (PC)	
Data storage	10,000 complete data sets. Data cannot be altered and meets 21 CFR Part 11 compliance.	
Reporting	Encrypted PDF, cleanroom monitoring and certification for ISO 14644-1, EU GMP, China GMP, and FS209E	
Remote operation	Real-time download to Facility Net, Pharmaceutical Net Pro, FacilityPro [®] SMART NG, or FacilityPro SCADA NG software, USB download, automatic clock adjustment with NPT server	
Communications	Ethernet, Modbus, USB data download	
Input/Output	Four 4-20 mA inputs (<0.5% of Span), four 4-20 mA outputs (<1.0% Span), one 5V pulse output	
Operating environment	Temperature: 0 - 32 °C (32 - 89.6 °F) Humidity: 5 - 95% RH non-condensing	
External dimensions	21.6 x 25.6 x 24.4 cm (8.5 x 10.1 x 9.6 in)	
Weight	6.4 kg (14.2 lb) with two optional batteries 5.4 kg (11.9 lb) without batteries	
Power	100 - 240 V, 50-60 Hz, 2.5 A. Up to two rechargeable Li-ion batteries.	
Laser classification	Class 1, complies with US 21 CFR 1040.10 and EN60825-1. An internal Class 4 laser is used per EN60825-1.	
Calibration	Meets ISO 21501-4:2018 requirements. Optional ISO 17025 compliance available.	

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

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