DATASHEET

Solair particle counters

Lighthouse

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Solair 1100

AIRBORNE PARTICLE COUNTER

Solair 1100 leads the industry as the first-of-its-kind portable particle counter with 0.1-micron sensitivity and 1.0 CFM (28.3 LPM) flow rate using laser diode technology.

Conventional HeNe (Helium Neon) particle counters require frequent cleaning and periodic laser tube replacement and suffer low concentration limits. The Solair 1100LD is designed to operate in ISO class 1 to class 7 cleanrooms without concerns of it exceeding concentration limits.

Weighing just 23.35 lbs (10.6 kg) with Li-Ion battery option, the Solair 1100LD is the smallest, lightest, and coolest running 0.1 micron 1.0 CFM portable particle counter on the market.

Features

- 0.1 - 5.0 µm particle size channels
- 1.0 CFM (28.3 LPM)
- Up to 8 channels of simultaneous count data
- 21 CFR Part 11 compliant secure USB flash transfer
- Laser diode sensor technology
- Stainless steel construction
- Ethernet/RS485/Modbus, 4x 4-20mA analog inputs
- 3,000 Record data storage
- 50-record configurable recipe database
- 2 year warranty



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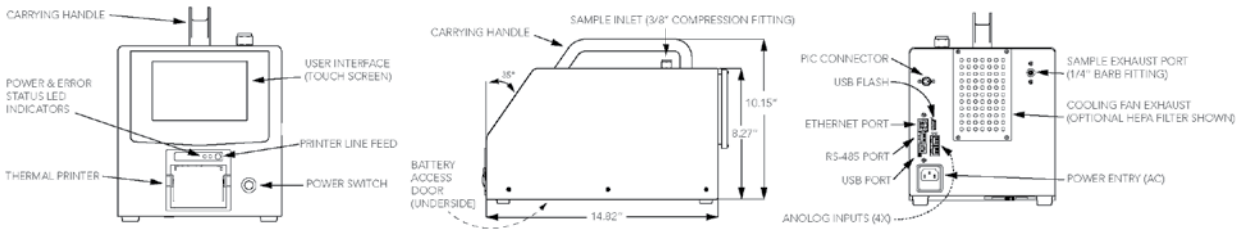
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Minimum Size Detection	0.1 µm
Standard 8 channel sizes	0.1, 0.15, 0.2, 0.25, 0.3, 0.5, 0.7, 1.0 µm
Additional Available size	5.0 µm
Flow Rate / Nozzle Size	1 CFM (28.3 LPM), 1/4" Inlet Barb
Weight	23.35 lbs (10.6 kg)
Concentration Limits	1,000,000 Particles/ft3@10%(35,300,000/m3) coincidence loss
Communication	USB, Ethernet, RS-485, USB flash drive
Data Storage Records	3,000 sample records, rotating buffer, particle and environmental data, location and time
Count Modes	Automatic, manual, beep, concentration, cumulative/differential, realtime with LMS software
Printer	Available with and without internal printer
Reports	ISO 14644-1:2015, EU GMP Annex 1
Alerts	Integrated adjustable alarm / external alarm connector; alarms on counts, low battery and sensor failure
Enclosure	Stainless steel
Touch Screen Display	5.7 inch (14.47 cm) color TFT touch screen display
Power	100-240 VAC, 50-60 Hz, external AC/DC adapter
Battery	Optional Li-Ion removable rechargeable
Light Source	Life Diode
Calibration	ISO 21501-4 Compliant and Accredited ISO 17025
Zero Count Level	< 1 Count / 5 minutes (meets JIS B 9921 specifications and reporting requirements of ISO 21501-4 Annex C)
Sample Output	Internally filtered to HEPA standards (>99.97 @ 0.3 µm)
Vacuum Source	Internal closed-loop controlled pump
Languages	English (US), French, German, Spanish, Italian, Russian,Japanese, Korean and Chinese
Supporting Software	LMS Express, LMS Pharma, LMS Professional, LMS XChange

Includes: Isokinetic sample probe, tubing, purge filter, power cables, spare fuse, printer paper, Calibration Certificate

Optional: Printed operating manual, wireless network adapter, removable rechargeable Li-Ion battery, carrying case with wheels, temperature/relative humidity probe, air velocity probe, ext. battery charger, software (LMS Express, LMS Pharma), validation documentation

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