DATASHEET

Solair particle counters

Lighthouse

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Solair

AIRBORNE PARTICLE COUNTER

The **Solair** can store up to 3,000 records of particle count data from up to 8 particle channels, and the configurable recipe database can store up to 50 recipes for sampling and reports.

The Solair can be connected to a manifold and used in a real-time monitoring system, connected to an optional Scan Air Pro filter scanning probe for filter integrity testing, and can even perform particle testing in ultra-pure gasses using optional high pressure diffusers. Integrate environmental sensors and you have the world's most versatile portable particle counter!

The Solair series portable particle counters incorporate our extreme life laser diode sensor technology to produce the industry's longest laser diode life of 20+ years MTTF (based on continuous 24/7 operation).

Features

- 0.3 -100µm particle size channels
- 1.0 CFM or 100 LPM flow rates available
- Up to 8 channels of simultaneous count data
- 21 CFR Part 11 compliant secure USB flash transfer
- Extreme life laser diode 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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LIGHTHOUSE WORLDWIDE SOLUTIONS

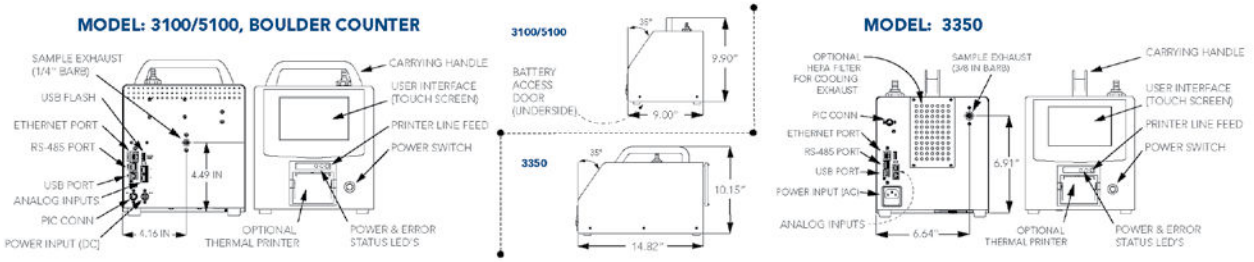
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DOCUMENT VERSION 2.0.0

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AIRBORNE PARTICLE COUNTER



	Solair 3100	Solair 5100	Solair BC	Solair 3350
Minimum Size Detection	0.3 µm	0.5 µm	5.0 µm	0.3 µm
Standard 6 Channel sizes	0.3, 0.5, 1.0, 3.0, 5.0, 10.0 µm	0.5, 0.7, 1.0, 3.0, 5.0, 10.0 µm	5.0, 10.0, 25.0, 40.0, 50.0, 100.0 µm	0.3, 0.5, 1.0, 3.0, 5.0, 10.0 µm
Additional sizes	0.7, 25.0 µm	25.0 µm	0.5, 1.0, 20.0, 30.0 µm	0.7, 25.0 µm
Flow Rate / Nozzle Size	1 CFM (28.3 LPM), 1/4" Inlet Barb			3.5 CFM (100 LPM), 3/8" Inlet Barb
Weight	13.95 lbs (6.33 kg)			25.83 lbs (11.73 kg)
Concentration Limits	1,000,000 Particles/ft3@10%(35,300,000/m3)			400,000 Particles/ft3@10% (14,120,000/m3)
Dimensions	Coincidence loss Suitable for ISO classes 1-8 cleanrooms			Coincidence loss suitable for ISO classes 1-8 cleanrooms
Communication	USB, Ethernet, RS-485, USB flash drive			
Data Records	3,000 Records			
Count Modes	Automatic, manual, beep, concentration, cumulative/differential			
Printer	Available with and without internal printer			
Reports	ISO 14644-1:2015, EU GMP Annex 1			
Alerts	On counts & low battery, Includes ext. alarm connection			
Enclosure	Stainless steel			
Screen Display	5.7 inch (14.47 cm) color TFT touch screen display			
Power	100-250 VAC, 47-63 HZ			
Light Source	Extreme Life Laser Diode with > 20 years MTTF			
Calibration	ISO 21501-4 Compliant and Accredited ISO 17025			
Zero Count Level	< 1 Count / 5 minutes (meets specifications of JIS B 9921 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			
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, intelligent filter scanner probe,air velocity probe, ext. battery charger, software (LMS Express, LMS Pharma), validation documentation.

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