

SOLAIRPortable

AIRBORNE PARTICLE COUNTERS

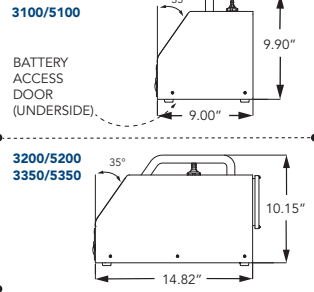
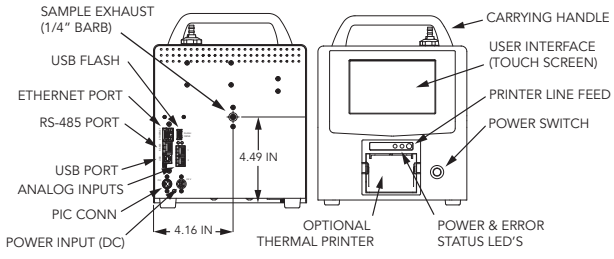


THE SOLAIR series portable particle counters incorporate our extreme life laser diode technology sensor to produce the industry’s longest laser diode life of 20+ year MTTF (based on continuous 24/7 operation). Using a new, lighter extended-life battery and external AC adapter, the SOLAIRs are even more portable. The SOLAIR features one of the industry’s best user interfaces (UI) to configure and operate the instrument with intuitive ICON-driven screens and menus that are simple and easy to learn and use.

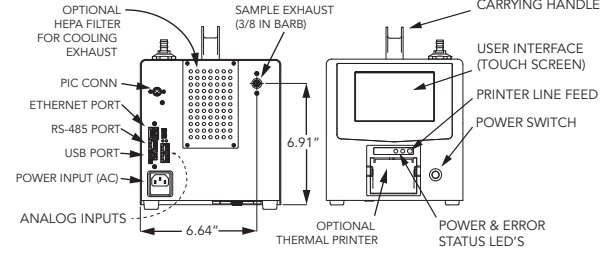
F E A T U R E S

- 0.3 - 100 μ m sensitivity
- 1.0 CFM, 50 & 100 LPM
- Up to 8 channels of simultaneous count data
- 21 CFR Part 11 compliant secure USB flash transfer
- Extreme life laser diode technology >20-year MTTF
- 5.7 inch color touch screen display
- Thermal printer
- Stainless steel construction
- Ethernet/RS485/Modbus, 4x 4-20mA analog outputs
- 3,000 record data storage
- 50-record configurable recipe database
- Report wizard: FS-209E, ISO-14644-1 & EU GMP Annex 1
- 2 year warranty

MODEL: 3100/5100, BOULDER COUNTER



MODEL: 3200/5200, 3350/5350



T E C H N I C A L D A T A S H E E T

SOLAIR Portable Airborne Particle Counters

	1 CFM		HIGH FLOW	
Model	3100	5100	3200	5200
Size range	0.3 - 25.0 µm	0.5 - 25.0 µm	0.3 - 25.0 µm	0.5 - 25.0 µm
Standard 6 channels	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	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
	0.3, 0.5, 1.0, 5.0, 10.0, 25.0 µm	0.5, 1.0, 3.0, 5.0, 10.0, 25.0 µm	0.3, 0.5, 1.0, 5.0, 10.0, 25.0 µm	0.5, 1.0, 3.0, 5.0, 10.0, 25.0 µm
Standard 8 channel	0.3,0.5,0.7,1.0,3.0,5.0,7.0,10.0 µm	0.5,0.7,1.0,2.0,3.0,5.0,7.0,10.0 µm	0.3,0.5,0.7,1.0,3.0,5.0,7.0,10.0 µm	0.5,0.7,1.0,2.0,3.0,5.0,7.0,10.0 µm
Optional 8 channel				
Flow rate	1 CFM (28.3 LPM)	1 CFM (28.3 LPM)	50 LPM	50 LPM
Counting efficiency	50% @ 0.3µm; 100% for particles > 0.45 µm (per ISO 21501-4)	50% @ 0.5µm; 100% for particles > 0.75 µm (per ISO 21501-4)	50% @ 0.3µm; 100% for particles > 0.45 µm (per ISO 21501-4)	50% @ 0.5µm; 100% for particles > 0.75 µm (per ISO 21501-4)
Concentration limits	1,000,000 particles/ft ³ , (35,300,000/m ³) @ 10% coincidence loss suitable for ISO classes 1-8 cleanrooms.		700,000 particles/ft ³ , (24,710,000/m ³) @ 10% coincidence loss suitable for ISO classes 1-8 cleanrooms.	
Dimensions	9.5"(l) x 8.0"(w) x 10.2"(h) (24.13 x 20.32 x 25.9 cm)		14.65"(l) x 8.0"(w) x 10.4"(h) (37.0 x 20.0 x 26.0 cm)	
Weight	With battery: 13.95 lbs (6.33 kg), without battery 12.35 lbs (5.6 kg)		With battery: 20.9 lbs (9.48 kg), without battery 17.8 lbs (8.07 kg)	
Model	BOULDER COUNTER		3350	5350
Size range	5.0 - 100.0 µm		0.3 - 25.0 µm	0.5 - 25.0 µm
Standard 6 channels	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	0.5, 0.7, 1.0, 3.0, 5.0, 10.0 µm
Optional 6 channels	5.0, 10.0, 20.0, 30.0, 50.0, 100.0 µm		0.3, 0.5, 1.0, 5.0, 10.0, 25.0 µm	0.5, 1.0, 3.0, 5.0, 10.0, 25.0 µm
Flow rate	1 CFM (28.3 LPM)		100 LPM	100 LPM
Counting efficiency	50% @ 5.0µm; 100% for particles > 7.5 µm (per ISO 21501-4)		50% @ 0.3µm; 100% for particles > 0.45 µm (per ISO 21501-4)	50% @ 0.5µm; 100% for particles > 0.75 µm (per ISO 21501-4)
Concentration limits	1,000,000 particles/ft ³ @ 10% coincidence loss		400,000 particles/ft ³ , (14,120,000/m ³) @ 10% coincidence loss suitable for ISO classes 1-8 cleanrooms.	
Dimensions	9.5"(l) x 8.0"(w) x 10.2"(h) (24.13 x 20.32 x 25.9 cm)		14.65"(l) x 8.0"(w) x 10.4"(h) (37.0 x 20.0 x 26.0 cm)	
Weight	With battery: 13.95 lbs (6.33 kg), without battery 12.35 lbs (5.6 kg)		With battery: 25.83 lbs (11.73 kg), without battery 22.75 lbs (10.32 kg)	

Features	Laser Source	Extreme Life Laser Diode with > 20 years MTTF	Printer	Available with and without internal printer
	Zero Count Level	< 1 count / 5 minutes (per ISO 21501-4)	Reports	FS-209, ISO 14644-1:2015, ISO 14644-1:1999, EU GMP Annex 1
	Calibration	Meets ISO 21501-4 calibration using NIST traceable PSL spheres	Alarm	On counts & low battery, Includes ext. alarm connection
	Count Modes	Automatic, manual, beep, concentration, cumulative/differential	Enclosure	Stainless steel
	Data Storage	3,000 sample records, rotating buffer	Sample Output	Internally filtered to HEPA standards (>99.97 @ 0.3 µm)
	Communication Modes	USB, Ethernet, RS-485, USB flash drive	Vacuum Source	Internal closed-loop controlled pump
	Supporting Software	LMS Express, LMS Express RT, LMS Pharma, LMS Pro	Power	100-250 VAC, 47-63 HZ
	Touch Screen	5.7 inch (14.47 cm) color TFT touch screen display	Languages	English (US), French, German, Spanish, Italian, Russian, Japanese, Korean and Chinese
	Location Labels	Up to 400 based on location label length		

- Included** Operating manual with CD, LMS Express transfer software, isokinetic sample probe, tripod, tubing, purge filter, power cables, spare fuse, printer, printer paper
- 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 ExpressRT, LMS Pharma, LMA Pro), validation documentation, cleanroom cart

Distributed By:

Operating 50°F to 104°F (10°C to 40°C) / 20% to 95% non-condensing
Storage 14°F to 122°F (-10°C to 50°C) / Up to 98% non-condensing



Lighthouse Worldwide Solutions reserves the right to change specifications without notice.