



LIGHTHOUSE

WORLDWIDE SOLUTIONS



SOLAIR 3100 SOLAIR 5100

AIRBORNE PARTICLE COUNTERS

Dependable and reliable, the Lighthouse **SOLAIR 3100** and **SOLAIR 5100** laser particle counters use the latest in laser optical particle counting technology.

The **SOLAIR 3100** and **SOLAIR 5100** portable particle counters offer a sensitivity of 0.3 and 0.5 micron, respectively, at a flow rate of 1.0 CFM (28.3 LPM) and a wide dynamic range of 0.3 to 25.0 microns.

Utilizing an easy to read 5.7-inch (14.47 cm) touch screen, the **SOLAIR 3100** and **SOLAIR 5100** are easy to configure and operate. They can store 1,500 records of particle count data from up to 6 channels and environmental data from up to four analog sensors (4-20 mA). All data can be quickly and reliably transferred to a computer or printed on an optional thermal printer.

Demonstrating their versatility, the **SOLAIR 3100** or **SOLAIR 5100** can be used as a portable instrument or integrated into a facility monitoring system.

**Designed and built by
Lighthouse - a name you can trust.**

Lighthouse is an ISO 9001:2000 Registered company.

www.golighthouse.com

Features:

- ★ SOLAIR 3100: 0.3µm - 25.0µm Range
- ★ SOLAIR 5100: 0.5µm - 25.0µm Range
- ★ 1.0 CFM (28.3 LPM) Flow Rate
- ★ Wide Dynamic Range
- ★ Simultaneous Display of up to 6 Particle Sizes
- ★ Both Models Meet JIS Standards
- ★ 5.7-inch (14.47 cm) Touch Screen Interface
- ★ 1,500-sample Data Storage Memory
- ★ Up to 4 Environmental Sensors (4-20 mA)
- ★ 200 Alphanumeric Location Labels
- ★ Optional Easy-to-Load Thermal Printer
- ★ User-Definable Printouts
- ★ Data Reported in Normalized Counts:
FS-209E, ISO-14644-1, BS-5295 or EU GMP
- ★ Easily Configured Interface with Zoom Capability
- ★ Integrated Alarm and External Alarm Connection
- ★ Data Easily Transferred to a Computer

Benefits:

- ★ 2 Year Warranty
- ★ User Friendly Interface
- ★ Easy-to-Read Display
- ★ International Support
- ★ Low Cost of Ownership



Easy Loading
Thermal Printer
(optional)



Zoom Screen
Functionality



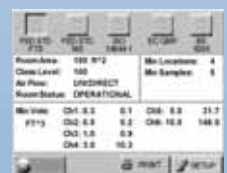
Start-up and
Configuration
Password



User Friendly
Configuration



Alphanumeric
Location Labels



Multiple Cleanroom
Standard Reports
via Optional Printer



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Specifications:

	3100	5100
Size Range:	0.3 - 25.0µm	0.5 - 25.0µm
Channel Sizes:	Standard: 0.3, 0.5, 5.0, 10.0µm Optional: 0.3, 0.5, 1.0, 5.0, 10.0, 25.0µm Optional: 0.3, 0.5, 1.0, 3.0, 5.0, 10.0µm Optional: 0.3, 0.5, 1.0, 5.0, 10.0, 25.0µm	Standard: 0.5, 1.0, 5.0, 10.0µm Standard: 0.5, 5.0, 10.0, 25.0µm Optional: 0.5, 0.7, 1.0, 3.0, 5.0, 10.0µm Optional: 0.5, 1.0, 3.0, 5.0, 10.0, 25.0µm
Counting Efficiency:	50% @ 0.3µm; 100% for particles > 0.45µm (per JIS)	50% @ 0.5µm; 100% for particles > 0.75µm (per JIS)

Flow Rate:	1.0 CFM (28.3 LPM)
Laser Source:	Laser Diode
Zero Count Level:	<1 count / 5 minutes (per JIS)
Concentration Limits:	500,000 Particles/ft ³ @5% Coincidence Loss
Calibration:	NIST Traceable
Count Modes:	Automatic, Manual, Beep, Concentration, Cumulative/Differential, Real Time (with LMSNet, LMS Express RT/RT+)
Data Storage:	1,500 Sample Records (Rotating Buffer) which includes particle and environmental data and locations and times
Communication Modes:	RS-232 via RJ-45 to PC, RS-485/MODBUS
Supporting Software:	LMS XChange, LMS Express, LMS Express RT and LMS Express RT+, LMSNet
Environmental Sensors:	Optional (up to 4): Temperature/Relative Humidity, Air Velocity, Differential Pressure, or others
Touch Screen Display:	5.7-inch (14.47 cm) Monochrome, 320x240
Printer:	Optional Thermal Printer
Reports:	FS-209E, ISO-14644-1, BS-5295 & EU GMP
Alarm:	Integrated, Adjustable Alarm; External Alarm Connector; Alarms on Counts, Low Battery, Sensor Failure
Enclosure:	Stainless Steel
Sample Output:	Internally Filtered to HEPA Standards (>99.997% @ 0.3µm)
Vacuum Source:	Internal Pump, Automatic Flow Control
Power:	100-240 VAC, 50-60 Hz
Dimensions:	9.96" (l) x 8.0" (w) x 10.16" (h) [25.3 x 20.32 x 25.81 cm]
Weight:	12.95 lbs (5.9 kg)

Environmental Conditions:

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

Accessories:

Included:	Operating Manual on CD, Isokinetic Sample Probe with Tripod and Tubing, Purge Filter, Power Cable and Spare Fuse, LMS XChange Software
Optional:	Printed Operating Manual; Network Adapter; Wireless Network Adapter; Carrying Case with Wheels; Cleanroom Cart; Temperature/Relative Humidity Probe; Air Velocity Probe; Differential Pressure Probe; Filter Scanning Probe; High Pressure Diffuser; Printer; Printer Paper; Removable, Rechargeable Li-Ion Battery; Spare Battery; External Battery Charger; 32-Port Universal Manifold; LMS Express, Express RT and RT+ Software; Validation Manual

Manufactured by:



LIGHTHOUSE
WORLDWIDE SOLUTIONS

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Distributed by:

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

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