




EXTREME LIFE LASER DIODE TECHNOLOGY



SOLAIR 3100+ SOLAIR 5100+

AIRBORNE PARTICLE COUNTERS

Lighthouse **SOLAIR 3100+** and **SOLAIR 5100+** portable airborne particle counters incorporate our **Extreme Life Laser Diode Technology** sensor to produce the industry's first 20-year MTTF laser lifespan.

The **SOLAIR 3100+** and **SOLAIR 5100+** provide excellent sensitivity of 0.3 and 0.5 μ m, respectively, at a flow rate of 1.0 CFM (28.3 LPM) and a dynamic range of up to 25.0 μ m.

The integrated 5.7-inch (14.47 cm) color touch screen interface makes these instruments easy to configure and operate. Both counters can store 3,000 records of particle count data from up to 8 channels and environmental data from up to four analog sensors (4-20mA). All data can be quickly and reliably transferred to a computer or printed on its built-in 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+: 0.3 μ m to 25.0 μ m
- ★ SOLAIR 5100+: 0.5 μ m to 25.0 μ m
- ★ 1.0 CFM (28.3 LPM) Flow Rate
- ★ User Removable, Rechargeable Li-Ion Battery
- ★ Simultaneous Display of up to 8 Particle Sizes
- ★ Extreme Life Laser Diode Technology
 >20 Years MTTF Laser Lifespan @ 0.3 & 0.5 μ m
- ★ 304 Stainless Steel Construction
- ★ Easy-to-Load Thermal Printer, User-Definable Printouts
- ★ Up to 4 Environmental Sensors (4-20mA)
- ★ Multiple Communication Interfaces: RS-232 and RS-485
- ★ SOLAIR 3100+ and 5100+ Meet JIS B 9921 Standards
- ★ 5.7-inch Color Touch Screen
- ★ 3000-record Data Storage Memory
- ★ 200 Alphanumeric Location Labels
- ★ Data Reported in normalized Counts:
 FS-209E, ISO-14644-1 or EU GMP Annex 1
- ★ Integrated Alarm and External Alarm Connection
- ★ Data Easily Transferred to a Computer

Benefits:

- ★ 2 Year Warranty
- ★ International Support
- ★ Small Footprint
- ★ Low Cost of Ownership

Applications:

- ★ Cleanroom Monitoring
- ★ Hospital Surgical Rooms
- ★ Facility Monitoring
- ★ Pharmaceutical



Easy Loading
Thermal Printer



User Removable
Rechargeable
Li-Ion Battery



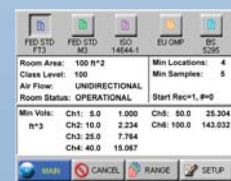
Zoom Screen
Functionality



User Friendly
Configuration



Alphanumeric
Location Labels



Multiple
Cleanroom
Standard Reports
via Printer



Specifications:

	3100+	5100+
Size Range:	0.3 - 25.0µm	0.5 - 25.0µm
Standard Channel Sizes:	0.3, 0.5, 1.0, 3.0, 5.0, 10.0µm 0.3, 0.5, 1.0, 5.0, 10.0, 25.0µm	0.5, 0.7, 1.0, 3.0, 5.0, 10.0µm 0.5, 1.0, 3.0, 5.0, 10.0, 25.0µm
8-Channel:	0.3, 0.5, 0.7, 1.0, 3.0, 5.0, 7.0, 10.0µm	0.5, 0.7, 1.0, 2.0, 3.0, 5.0, 7.0, 10.0µm

Flow Rate:	1.0 CFM (28.3 LPM)
Counting Efficiency:	3100+, 50% @ 0.3µm; 100% @ sizes > 0.45µm; 5100+, 50% @ 0.5µm; 100% @ sizes > 0.75µm Per JIS B 9921, ISO 21501-4
Light Source:	<i>Extreme Life Laser Diode Technology</i> with >20 Year Mean Time To Failure (MTTF)
Zero Count Level:	<1 count / 5 minutes (per JIS B 9921)
Concentration Limits:	500,000 particles / ft ³ @ 5% coincidence loss
Calibration:	NIST Traceable, per ISO 21501-4
Count Modes:	Manual, Automatic, Beep, Concentration and Real Time (with <i>LMSNet</i> or <i>LMS Express RT/RT+</i>)
Data Storage:	3,000 Sample Records (Rotating Buffer) which includes particle and environmental data, locations and times
Communication Modes:	RS-232 via RJ-45 to PC, RS-485/MODBUS
Supporting Software:	<i>LMS XChange</i> , <i>LMS Express</i> , <i>LMS Express RT/RT+</i> , <i>LMSNet</i>
Environmental Sensors:	Optional (up to 4): Temperature/Relative Humidity, Air Velocity, Differential Pressure
Touch Screen Display:	5.7-inch (14.47 cm) color, 320x240
Printer:	Built-in Thermal Printer
Reports:	ISO-14644-1, FS-209E & EU GMP Annex 1
Alarm:	Integrated, Adjustable Alarm and External Alarm Connection: Alarms on Counts and Low Battery
Enclosure:	304 Stainless Steel
Sample Output:	Internally filtered to HEPA standards (>99.97% @ 0.3µm)
Vacuum Source:	Internal flow-controlled pump
Power:	100-240 VAC, 50-60 Hz
Battery:	Li-Ion, Removable & Rechargeable
Dimensions:	9.96" (l) x 8.0" (w) x 10.16" (h) [25.3 x 20.32 x 25.81 cm]
Weight:	With Battery: 14.9 lbs (6.8 kg); Without Battery: 12.95 lbs (5.9 kg)

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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; Removable/Rechargeable Li-Ion Battery; Power Cable and Spare Fuse; LMS XChange Software; Printer; Printer Paper

Optional: Printed Operating Manual; *Network Adapter*; *Wireless Network Adapter*; Shipping Case with Wheels; Cleanroom Cart; Temperature/Relative Humidity Probe; Air Velocity Probe; Differential Pressure Probe; Filter Scanning Probe; High Pressure Diffuser; Spare Removable/Rechargeable Li-Ion Battery; External Battery Charger; 32-port *Universal Manifold System*; *LMS Express/RT/RT+* Software; *LMSNet* Software; Validation Manual

Manufactured by:



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