



## SOLAIR 3200+ SOLAIR 5200+

### AIRBORNE PARTICLE COUNTERS

The **SOLAIR 3200+** and **SOLAIR 5200+** portable counters offer a sensitivity of 0.3 micron and 0.5 micron, respectively, at a flow rate of 2.0 CFM (56.6 LPM) or 50 LPM and a wide dynamic range of up to 25.0 microns.

Utilizing a 5.7-inch color (14.5 cm) touch screen interface, the **SOLAIR 3200+** and **SOLAIR 5200+** are easy to configure and operate. They can store 3,000 records of particle count data from up to 8 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 its built-in thermal printer.

Demonstrating their versatility, the **SOLAIR 3200+** and **SOLAIR 5200+** can be used as portable instruments 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](http://www.golighthouse.com)

### Features:

- ★ SOLAIR 3200+: 0.3µm to 25.0µm Range
- ★ SOLAIR 5200+: 0.5µm to 25.0µm Range
- ★ 2.0 CFM or 50 LPM Flow Rate
- ★ Simultaneous Display of up to 8 Particle Sizes
- ★ Wide Dynamic Range
- ★ Both Models Meet JIS Standards
- ★ 5.7-inch (14.5 cm) Color Touch Screen
- ★ Removable, Rechargeable Li-Ion Battery
- ★ 3,000-sample Data Storage Memory
- ★ Up to 4 Environmental Sensors (4-20 mA)
- ★ 200 Alphanumeric Location Labels
- ★ 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



User Removable  
Rechargeable  
Li-Ion Battery



Zoom Screen  
Functionality



User Friendly  
Configuration



Alphanumeric  
Location Labels



Multiple  
Cleanroom  
Standard Reports  
via Printer



## Specifications:

	3200+	5200+
<b>Size Range:</b>	0.3 - 25.0µm	0.5 - 25.0µm
<b>6-Channel Sizes:</b>	0.3, 0.5, 1.0, 3.0, 5.0, 10.0µm	0.5, 0.7, 1.0, 3.0, 5.0, 10.0µm
<b>8-Channel Sizes:</b>	0.3, 0.5, 1.0, 5.0, 10.0, 25.0µm 0.3, 0.5, 0.7, 1.0, 3.0, 5.0, 7.0, 10.0µm	0.5, 1.0, 3.0, 5.0, 10.0, 25.0µm 0.5, 0.7, 1.0, 2.0, 3.0, 5.0, 7.0, 10.0µm
<b>Counting Efficiency:</b>	50% @ 0.3µm; 100% for particles > 0.45µm (per JIS)	50% @ 0.5µm; 100% for particles > 0.75µm (per JIS)

<b>Flow Rate:</b>	2.0 CFM or 50 LPM
<b>Laser Source:</b>	Laser Diode
<b>Zero Count Level:</b>	<1 count / 5 minutes (per JIS)
<b>Concentration Limits:</b>	250,000 Particles/ft <sup>3</sup> @5% Coincidence Loss
<b>Calibration:</b>	NIST Traceable
<b>Count Modes:</b>	Automatic, Manual, Beep, Concentration, Cumulative/Differential and Real Time (with <i>LMSNet</i> or <i>LMS Express RT/RT+</i> )
<b>Data Storage:</b>	3,000 Sample Records (Rotating Buffer) which includes particle and environmental data with locations and times
<b>Communication Modes:</b>	RS-232 via RJ-45 to PC, RS-485/MODBUS
<b>Supporting Software:</b>	<i>LMS XChange</i> , <i>LMS Express</i> , <i>LMS Express RT</i> and <i>LMS Express RT+</i> , <i>LMSNet</i>
<b>Environmental Sensors:</b>	Optional (up to 4): Temperature/Relative Humidity, Air Velocity, Differential Pressure, or others
<b>Touch Screen Display:</b>	5.7-inch (14.5 cm) Color, 320x240
<b>Printer:</b>	Built-in Thermal Printer
<b>Reports:</b>	FS-209E, ISO-14644-1, BS-5295 & EU GMP
<b>Alarm:</b>	Integrated, Adjustable Alarm Buzzer, External Alarm Connector. Alarms on Counts, Low Battery, Sensor Failure
<b>Enclosure:</b>	Stainless Steel
<b>Sample Output:</b>	Internally Filtered to HEPA Standards (>99.997% @ 0.3µm)
<b>Vacuum Source:</b>	Internal Pump, Automatic Flow Control
<b>Power:</b>	85-264 VAC, 47-63 Hz
<b>Battery:</b>	Li-Ion, Removable & Rechargeable
<b>Dimensions:</b>	14.65" (l) x 8" (w) x 10.4" (h) [37 x 20 x 26 cm]
<b>Weight:</b>	With Battery: 26 lbs (11.8 kg) Without Battery: 23 lbs (10.43 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; Removable Rechargeable Li-Ion Battery; Power Cable and Spare Fuse; *LMS XChange* Software; Printer; Printer Paper

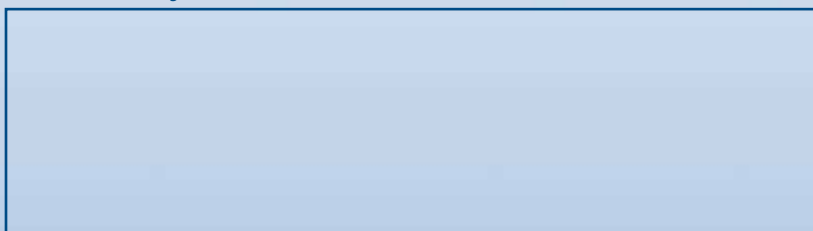
**Optional:** Printed Operating Manual; *Network Adapter*, *Wireless Network Adapter*, Carrying Case with Wheels; Cleanroom Cart; Temperature/Relative Humidity Probe; Air Velocity Probe; Differential Pressure Probe; Filter Scanning Probe; Spare Removable Rechargeable Li-Ion Battery; External Battery Charger; *LMS Express*, *RT*, *RT+* Software; *LMSNet* Software; Validation Documentation

Manufactured by:

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