



# LIGHTHOUSE

WORLDWIDE SOLUTIONS



## SOLAIR 3100Rx SOLAIR 5100Rx

### Airborne Particle Counters

Designed with the latest in laser optical particle counting technology, the **SOLAIR 3100Rx** and **SOLAIR 5100Rx** portable airborne particle counters offer sensitivities of 0.3 and 0.5 microns, respectively, at a flow rate of 1.0 CFM (28.3 LPM). Housed in a sleek 316L stainless steel enclosure, the **SOLAIR 3100Rx** and **SOLAIR 5100Rx** are ideal for use in facilities that require instrument wipe-down.

The built-in 5.7-inch (14.47 cm) color touch screen makes the **SOLAIR 3100Rx** and **SOLAIR 5100Rx** easy to configure and operate. The instruments can store up to 3,000 records of particle count data from up to 8 channels. All data can be quickly and reliably transferred to a computer or printed on the optional built-in thermal printer.

Both models provide three modes of communication - Ethernet, RS-485 or USB, making communications with these instruments very flexible. Demonstrating their versatility, the **SOLAIR 3100Rx** and **SOLAIR 5100Rx** 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 3100Rx: 0.3-25.0µm Size Range
- ★ SOLAIR 5100Rx: 0.5-25.0µm Size Range
- ★ 1.0 CFM (28.3 LPM) Flow Rate
- ★ Simultaneous Display of up to 8 Particle Sizes
- ★ Designed to Enable 21 CFR Part 11 Compliance (With Additional Software)
- ★ Thermal Printer Option
- ★ 316L Stainless Steel Construction
- ★ Wipe-down Enclosure
- ★ Multiple Communication Interfaces - Ethernet, RS-485 and Universal Serial Bus (USB)
- ★ Sealed Inlet Port
- ★ Both Models Meet JIS Standards
- ★ 5.7-inch Color Touch Screen
- ★ 3000-record Data Storage Memory
- ★ 200 Alphanumeric Location Labels
- ★ User-Definable Printouts
- ★ Data Reported in Normalized Counts: FS-209E, ISO-14644-1, BS5295 or EU GMP

### Benefits:

- ★ 2 Year Warranty
- ★ Cost Effective Price per Point
- ★ Easy System Integration
- ★ International Sales and Service Support
- ★ Low Cost of Ownership

### Applications:

- ★ Cleanroom Monitoring
- ★ Building Automation
- ★ Facility Monitoring
- ★ Cleanroom Performance Verification
- ★ Trend Analysis
- ★ Cleanroom Laundries
- ★ Cleanroom Packaging
- ★ Pharmaceutical Packaging and Manufacturing



## Specifications:

	3100Rx	5100Rx
<b>Size Range:</b>	0.3 - 25.0µm	0.5 - 25.0µm
<b>Standard Channel Sizes:</b>	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
<b>8-Channel:</b>	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

<b>Flow Rate:</b>	1.0 CFM (28.3 LPM)
<b>Counting Efficiency:</b>	Per JIS: 3100Rx = 50% @ 0.3µm; 100% for particles > 0.45µm; 5100Rx = 50% @ 0.5µm; 100% for particles > 0.75µm
<b>Laser Source:</b>	Laser Diode
<b>Zero Count Level:</b>	<1 count / 5 minutes (per JIS)
<b>Concentration Limits:</b>	500,000 particles / ft <sup>3</sup> @ 5% coincidence loss
<b>Calibration:</b>	NIST Traceable
<b>Count Modes:</b>	Manual, Automatic, Beep, Concentration 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 data, locations and times
<b>Communication Modes:</b>	RS-485/MODBUS; Ethernet; Universal Serial Bus
<b>Supporting Software:</b>	<i>LMS XChange</i> , <i>LMS Express</i> , <i>LMS Express RT/RT+</i> , <i>LMSNet</i> ; <i>FMS-3</i>
<b>Touch Screen Display:</b>	5.7-inch (14.47 cm) color, 320x240
<b>Printer:</b>	Optional Built-in Thermal Printer
<b>Reports:</b>	ISO-14644-1, FS-209E, BS-5295 & EU GMP
<b>Alarm:</b>	Integrated, Adjustable Alarm and External Alarm Connection: Alarms on Counts and Low Battery
<b>Enclosure:</b>	316L Stainless Steel
<b>Sample Output:</b>	Internally filtered to HEPA standards (>99.997% @ 0.3µm)
<b>Vacuum Source:</b>	Internal flow-controlled pump
<b>Power:</b>	100-240 VAC, 50-60 Hz
<b>Battery:</b>	Li-Ion, Removable & Rechargeable
<b>Dimensions:</b>	9.75" (d) x 8.0" (w) x 10.25" (h) [24.77 x 20.32 x 26.03 cm]
<b>Weight:</b>	With Battery: 16.6 lbs (6.8 kg); Without Battery: 14.65 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; Data Cable; Isokinetic Sample Probe with Tripod and Tubing; Purge Filter; Removable/ Rechargeable Li-Ion Battery; Power Cable and Spare Fuse; *LMS XChange* Software; Printer Paper (with Printer Option)

Optional: Printed Operating Manual; Thermal Printer; Cleanroom Cart; Spare Removable/Rechargeable Li-Ion Battery; External Battery Charger; *LMS Express/RT/RT+* Software; *LMSNet* Software; Validation Manual

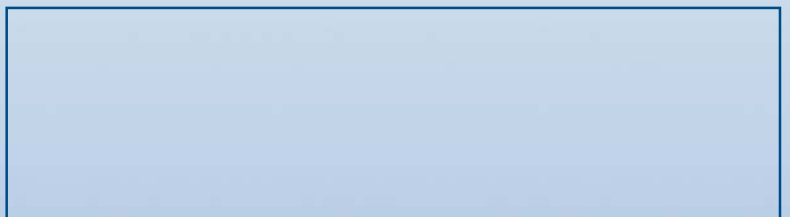
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LWS PN 545401645-1 Rev 1