HPC1100

FLOW CONTROL

LIGHTHOUSE

SOLAIR 1100+

Gas Sampling System

Designed with the latest in high-pressure gas component and patented laser particle counting technologies, the Lighthouse **Gas Sampling System** allows sampling of high pressure (30-150 psi) inert gas systems, such as Helium, Nitrogen, Argon and CO_2, with a sensitivity of 0.10μm at 1 CFM (28.3 LPM).

As the industry's only true portable 0.10μm system and having an exceptionally low operating noise level and small footprint, the Lighthouse **Gas Sampling System** allows portable or fixed installations in areas where diffusers were thought impractical.

The **Gas Sampling System** zero counts quickly and will not induce spurious or random 0.1μm counts due to oscillations as other designs can.

The **Gas Sampling System**'s Stainless Steel design is rugged and reliable. The 5.7" color touch screen makes set up and operation easy. During normal operation, no inert gas is wasted - 100% of the gas supplied is used

Designed and built by
Lighthouse - a name you can trust.
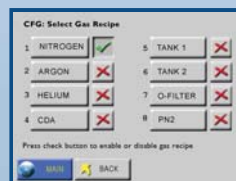
Lighthouse is an ISO 9001:2000 Registered Company

www.golighthouse.com

Features:

★ True 0.10μm Particle Detection at 1 CFM
★ 8 Particle Size Channels from 0.10 to 5.0μm
★ May be Used with Any Inert Gas Including Helium
★ Meets JIS B 9921 Standard
★ Intuitive User Control
★ Customizable Gas Recipes
★ Color Touch Screen Display
★ Built-in Thermal Printer
★ 3,000-Record Storage Memory
★ Removable, Rechargeable Li-Ion Battery
★ Auto Flow Rate Control
★ Fast Purge and Cleanup
★ Simple Installation and Operation
★ Stainless Steel Construction
★ VCR Fittings Internally and Externally
★ Quiet Operation

Benefits:

★ Portable or Fixed Applications
★ Output at Near Atmospheric Pressure
★ Low Operating Noise & Reduced Sample Times
★ Zero Gas Wasted During Normal Operation
★ Low Cost of Ownership
★ 2 Year Warranty
★ International Sales and Service Support

User-Customizable Gas Sample Recipes

Optional Li-Ion Battery

Zoom Screen Functionality

User Friendly Configuration

Alphanumeric Location Labels

Easy Loading Thermal Printer

System Specifications:

Size Range:	0.10µm - 5.0µm
Channel Sizes:	Standard: 0.10, 0.15, 0.2, 0.25, 0.3, 0.5, 1.0, 5.0µm
Flow Rate:	1.0 CFM (28.3 LPM)
Counting Efficiency:	50% @ 0.1µm; 100% for particles > 0.15µm (per JIS B 9921)
Light Source:	Enhanced Active Cavity 633nm HeNe Laser
Zero Count Level:	<1 count / 5 minutes, per JIS B 9921
Concentration Limits:	40,000 Particles / ft^3 @ 5% Coincidence Loss
Calibration:	NIST Traceable
Count Modes:	Automatic, Manual, Beep, Concentration, Cumulative/Differential, Real Time (with *LMSNet or LMS Express RT/RT+* software)
Data Storage:	3,000 Sample Records, Rotating Buffer (particle and environmental data with location and time)
Communication Modes:	RS-232 via RJ-45 to PC, RS-485/MODBUS
Supporting Software:	*LMS XChange*, *LMS Express*, *LMS Express RT* and *RT+*, *LMSNet*
4-20mA Analog Sensors:	Up to 4 Optional Sensors (Temperature/Relative Humidity, Air Velocity and Differential Pressure)
Touch Screen Display:	5.7-inch (14.47 cm) Color, 320x240
Printer:	Built-in Thermal Printer
Enclosure, Both:	Stainless Steel
Alarms:	Integrated Adjustable Alarm and External Alarm Connector. Alarms on Counts, Low Battery, Sensor Failure
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
SOLAIR Battery:	Optional Internal Li-Ion Removeable/Rechargeable Battery
Dimensions:	SOLAIR: 20.5" (l) x 8.0" (w) x 8.75" (h) [52.07 x 20.32 x 22.23cm] HPC1100: 5.61" (w) x 7.57" (h) x 10.32" (d) [14.22 x 19.30 x 26.21 cm]
Weight:	SOLAIR: Without Battery: 24.5 lb (11.14 kg) With Battery: 28 lbs (12.70 kg) HPC1100: 6 lbs (2.7 kg)
Compatible Gasses:	Nitrogen, Argon, Helium, CDA, CO^2
Output Pressure:	Near Atmospheric
Input Pressure:	30-150 psi
Operating Noise Level:	<60 db

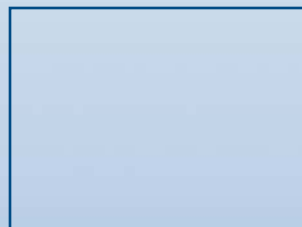## Accessories:

Included:	Sample Tubing; VCR seals; Nylon Nut and Ferrule Set; Operating Manual on CD; *LMS XChange*
Optional:	Additional Sample Tubing; 1/4-inch Female Coupling Body Fitting; Welded Stainless Steel In-Line 1/4-inch Filter (0.5µm, 2µm, 7µm, 15µm); *LMS Express*, *LMS Express RT* and *RT+*, *LMSNet* Software; Additional Cabling; Network Adapter; Wireless Adapter; Printed Operating Manual

Manufactured by:

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NATA Accredited Laboratory