



## REMOTE 1100 AIRBORNE PARTICLE COUNTER

Using state-of-the-art laser technology, the Lighthouse **REMOTE 1100** is not only the industry's first laser diode based remote particle counter with a sensitivity of 0.10 micron and a high flow rate of 1.0 CFM (28.3 LPM), it is the world's smallest 0.10 micron 1.0 CFM airborne particle counter.

Designed with reliability and quality in mind, the **REMOTE 1100** features Lighthouse's long-life laser diode technology that provides higher concentration limits (see reverse side), a better signal to noise ratio and requires less routine maintenance than conventional HeNe laser-based particle counters (no routine laser tube replacements or optics cleaning).

The **REMOTE 1100** provides continuous real-time data collection at a cost-effective price per point. Very simple to integrate with large facility monitoring and management systems, the **REMOTE 1100** can transfer up to 4 of simultaneous particle count data using Pulse Output.

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

Lighthouse is an ISO 9001:2008 Registered Company.

[www.golighthouse.com](http://www.golighthouse.com)

### *Features:*

- ★ 0.10 - 1.0  $\mu$ m Sensitivity
- ★ 1.0 CFM (28.3 LPM) Flow Rate
- ★ Up to 4 Channels of Simultaneous Data
- ★ World's Smallest 1.0 CFM 0.10  $\mu$ m counter
- ★ Meets ISO 21501-4 Standards
- ★ Long Life Laser Diode
- ★ Small Footprint
- ★ Status Indicators
- ★ Pulse Output
- ★ Stainless Steel Enclosure
- ★ Interfaces to Facility Monitoring Systems
- ★ Uses External Vacuum Source
- ★ Designed for Reliability
- ★ Designed to Ensure 21 CFR Part 11 Compliance when used with Additional Software
- ★ No Routine Laser Tube Replacements
- ★ No Routine Laser Optics Cleaning

### *Benefits:*

- ★ 2 Year Warranty
- ★ Cost Effective Price per Point
- ★ Proven Data Integrity
- ★ Provides Continuous Real-Time Data
- ★ Reduced Maintenance costs over HeNe
- ★ Easy System Integration
- ★ International Support
- ★ Low Cost of Ownership



## Specifications

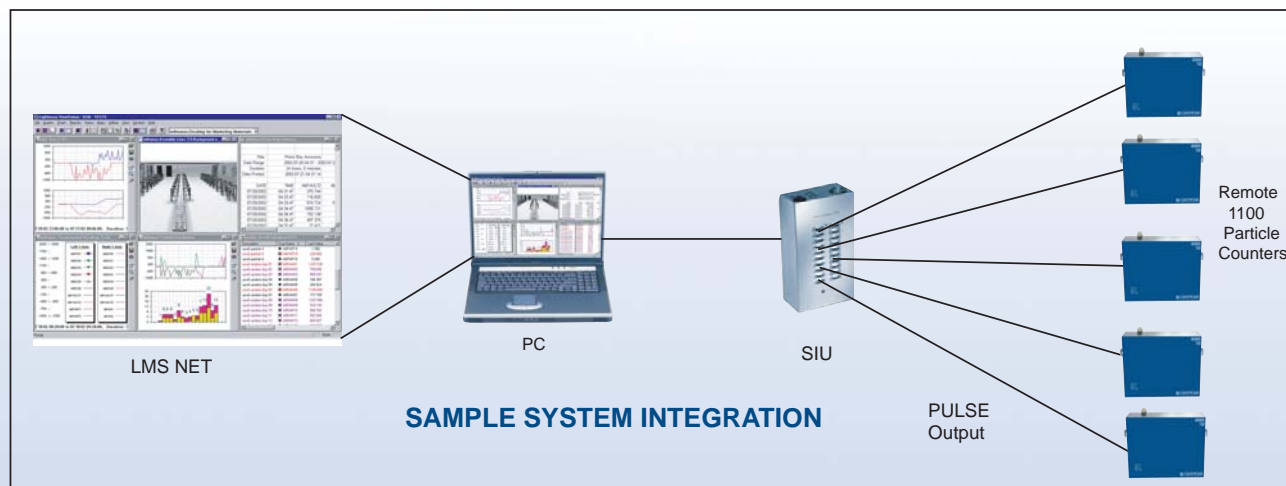
	1100
<b>Size Range:</b>	0.10 - 1.0 $\mu\text{m}$
<b>Channel Sizes:</b>	2 Channels: 0.1, 0.3 $\mu\text{m}$ 4 Channels: 0.1, 0.2, 0.3, 0.5 $\mu\text{m}$
<b>Communication Modes:</b>	Pulse Output via Single DB-15 Connector
<b>Counting Efficiency:</b>	50% @ 0.1 $\mu\text{m}$ ; 100% for particles > 0.15 $\mu\text{m}$ (per JIS)
<b>Flow Rate:</b>	1.0 CFM (28.3 LPM)
<b>Laser Source:</b>	Long Life Laser Diode
<b>Zero Count Level:</b>	<1 count / 5 minutes (per JIS)
<b>Concentration Limits:</b>	500,000 Particles / $\text{ft}^3$ (17,150,000 / $\text{m}^3$ ) @ 5% Coincidence Loss, per ISO 21501-4
<b>Calibration:</b>	NIST Traceable, per ISO 21501-4
<b>Vacuum Requirements:</b>	External Vacuum Required, Nominal 1.0 CFM >18" (45.72 cm) of Hg
<b>LED Indicators:</b>	Power, Flow, Service, Sampling
<b>Supporting Software:</b>	Lighthouse Monitoring System, LMS Express, LMS Express RT, LMS Net
<b>Enclosure:</b>	Stainless Steel
<b>Power:</b>	24 VDC
<b>Dimensions:</b>	10.5" (w) x 7.65" (h) x 3.35" (d) [26.67 x 19.43 x 8.51 cm]
<b>Weight:</b>	7.0 lb (3.18 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, Purge Filter, Power Supply, Power Cord  
**Optional:** Isokinetic Sampling Probe, Sample Tubing, Cabling



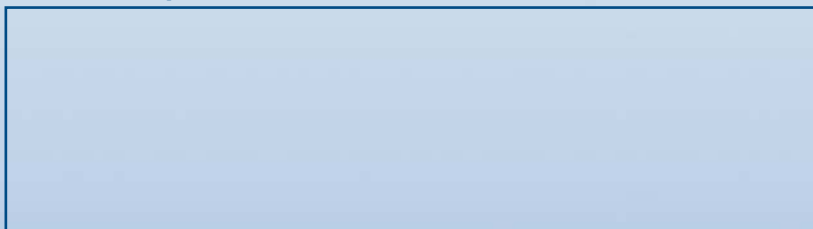
**Manufactured by:**



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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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