



**LIGHTHOUSE**  
WORLDWIDE SOLUTIONS  
*Technology That Counts!*



## REMOTE 1100LD Airborne Particle Counter

The Lighthouse **REMOTE 1100LD** is not only the industry's first laser diode based remote particle counter with a sensitivity of 0.10 micron and high flow rate of 1.0 CFM (28.3 LPM), it is the world's smallest and uses an optics and photodiode system designed to reduce or eliminate the temperature issues associated with high power laser diode sensors.

Designed with reliability and quality in mind, the **REMOTE 1100LD** 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 1100LD** 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 1100LD** 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  $\mu\text{m}$  Sensitivity
- ★ 1.0 CFM (28.3 LPM) Flow Rate
- ★ Up to 4 Channels of Simultaneous Data
- ★ World's Smallest 1.0 CFM 0.10  $\mu\text{m}$  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

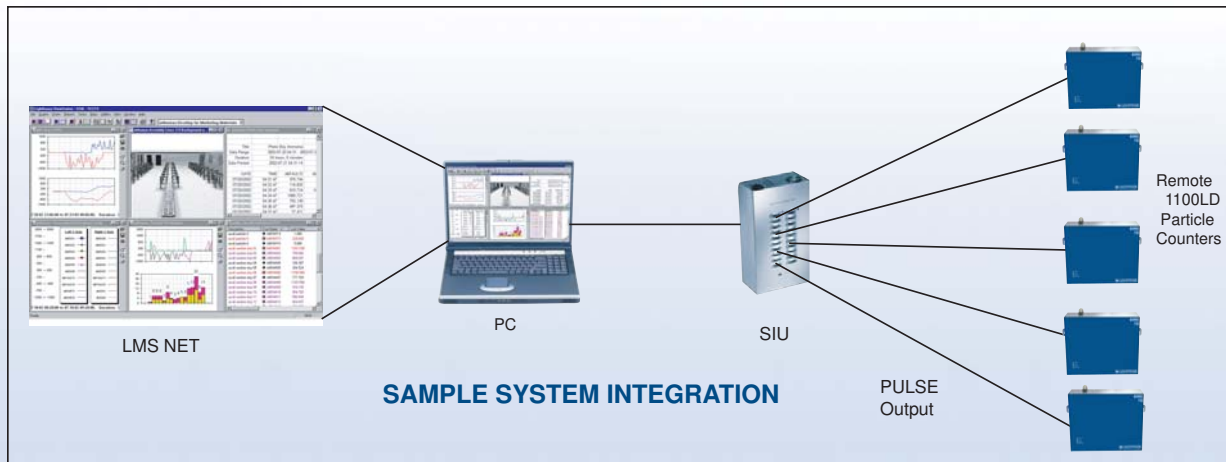
	<b>REMOTE 1100LD</b>
<b>Size Range:</b>	0.10 - 1.0 $\mu\text{m}$
<b>Channel Sizes:</b>	4 Channels: 0.1, 0.2, 0.3, 0.5 $\mu\text{m}$
<b>Communication Modes:</b>	Pulse Output via Single DB-15 Connector
<b>Counting Efficiency:</b>	50% @ 0.1 $\mu\text{m}$ ; 100% for particles > 0.15 $\mu\text{m}$ (per JIS)
<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 / ft <sup>3</sup> (17,150,000 / m <sup>3</sup> ) @ 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



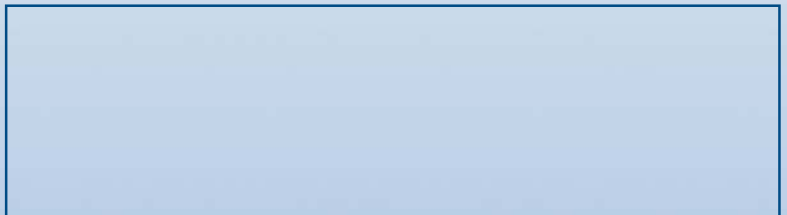
Manufactured by:



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