



**LIGHTHOUSE**  
WORLDWIDE SOLUTIONS



## REMOTE 3102, 5102

### AIRBORNE PARTICLE COUNTERS

Incorporating the latest in laser optical particle counting technology, Lighthouse designed the **REMOTE 3102** and **5102** for continuous trouble-free operation.

With a sensitivity of 0.3 and 0.5 micron, respectively, at a flow rate of 1.0 CFM (28.3 LPM), the **REMOTE 3102** and **5102** provide real-time continuous data collection at a cost-effective price per point.

Using an external vacuum source, the compact **REMOTE 3102** and **5102** particle counters provide versatile mounting options and can be installed where space is at a premium.

The **REMOTE 3102** and **5102** integrate seamlessly into large facility monitoring and management systems and transfer up to 2 channels of simultaneous particle count data using 4-20mA output.

**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:

- ★ REMOTE 3102: 0.3 - 25µm
- ★ REMOTE 5102: 0.5 - 25µm
- ★ 1.0 CFM (28.3 LPM) Flow Rate
- ★ 2 Channels of Simultaneous Data
- ★ Both Models Meet JIS Standards
- ★ Compact Size
- ★ Stainless Steel Enclosure
- ★ Status Indicators
- ★ Alarm Output
- ★ 4-20 mA Output
- ★ Facility Monitoring Systems Interface
- ★ Versatile Mounting Options
- ★ External Vacuum Source
- ★ Designed for Reliability

### Benefits:

- ★ 2 Year Warranty
- ★ Install in Limited Space
- ★ Cost Effective Price per Point
- ★ Proven Data Integrity
- ★ Proven Reliability
- ★ Continuous Real-Time Data
- ★ Easy System Integration
- ★ International Support
- ★ Low Cost of Ownership



Online Monitoring



Isokinetic Probe



Screw Terminal Connector



Stainless Steel Enclosure



Status LEDs



Barbed Vacuum Connector



## Specifications:

	3102	5102
<b>Size Range:</b>	0.3 - 25.0µm	0.5 - 25.0µm
<b>Channel Sizes:</b>	Standard: 0.3, 0.5µm	Standard: 0.5, 5.0µm Standard: 0.5, 10.0µm
<b>Counting Efficiency:</b>	50% @ 0.3µm; 100% for particles > 0.45µm (per JIS)	50% @ 0.5µm; 100% for particles > 0.45µm (per JIS)

*Additional channel sizes are available - please contact your Lighthouse Sales Engineer for information regarding these options.*

<b>Flow Rate:</b>	1.0 CFM (28.3 LPM)
<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>Vacuum Requirements:</b>	External Vacuum required, nominal 1.0 CFM >18" (45.72 cm) of Hg
<b>Communication Modes:</b>	4-20mA
<b>LED Indicators:</b>	Power, Service
<b>Connector:</b>	Screw Terminal
<b>Supporting Software:</b>	Lighthouse Monitoring System
<b>External Alarm Output:</b>	Normally Open (NO), Dry-contact, Rated 0-60 VDC/VAC, 1 Amp
<b>Enclosure:</b>	Stainless Steel
<b>Power:</b>	24 VDC
<b>Dimensions:</b>	REMOTE 3102: 3.5" (l) x 4.2" (w) x 3.3" (h) [ 8.89 x 10.66 x 8.38 cm] REMOTE 5102: 1.7"(l) x 4.2"(w) x 2.5"(h) [4.3 x 10.7 x 6.3 cm]
<b>Weight:</b>	REMOTE 3102: 2 lb. (0.90 kg) REMOTE 5102: 0.78 lb (0.35 kg)

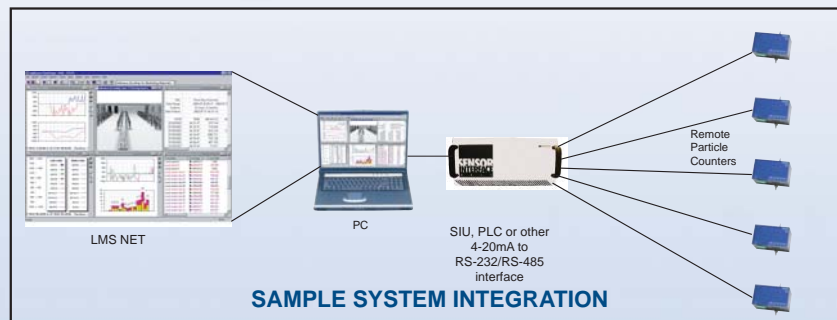
## Environmental Conditions:

**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

**Optional:** Printed Operating Manual; Isokinetic Sampling Probes; Vacuum Tubing; Sample Tubing; Data Cable; Purge Filter; Power Supply; High-Pressure Diffuser; RS-232 Interface cable and adapter; USB to Serial Port Converter; REMOTE Mounting Bracket.



## Manufactured by:



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