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.

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

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

Lighthouse is an ISO 9001:2000 Registered Company

www.golighthouse.com
Specifications:

<table>
<thead>
<tr>
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<th>3102</th>
<th>5102</th>
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</thead>
<tbody>
<tr>
<td>Size Range:</td>
<td>0.3 - 25.0μm</td>
<td>0.5 - 25.0μm</td>
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<tr>
<td>Channel Sizes:</td>
<td>Standard: 0.3, 0.5μm</td>
<td>Standard: 0.5, 5.0μm</td>
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<td></td>
<td>Standard: 0.5, 10.0μm</td>
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<tr>
<td>Counting Efficiency:</td>
<td>50% @ 0.3μm; 100% for particles &gt; 0.45μm (per JIS)</td>
<td>50% @ 0.5μm; 100% for particles &gt; 0.45μm (per JIS)</td>
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</table>

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

| Flow Rate:           | 1.0 CFM (28.3 LPM)    |
| Laser Source:        | Laser Diode           |
| Zero Count Level:    | <1 count / 5 minutes (per JIS) |
| Concentration Limits:| 500,000 Particles / ft³ @ 5% Coincidence Loss |
| Calibration:         | NIST Traceable        |
| Vacuum Requirements: | External Vacuum required, nominal 1.0 CFM >18” (45.72 cm) of Hg |
| Communication Modes: | 4-20mA                |
| LED Indicators:      | Power, Service        |
| Connector:           | Screw Terminal        |
| Supporting Software: | Lighthouse Monitoring System |
| External Alarm Output: | Normally Open (NO), Dry-contact, Rated 0-60 VDC/VAC, 1 Amp |
| Enclosure:           | Stainless Steel       |
| Power:               | 24 VDC                |
| Dimensions:          | 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] |
| Weight:              | 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:

Lighthouse Worldwide Solutions
www.golighthouse.com
info@golighthouse.com
Tel: 800 945 5905
510 438 0500 (Outside of USA)

Distributed by:

Lighthouse Worldwide Solutions reserves the right to change specifications without notice.
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