



LIGHTHOUSE
WORLDWIDE SOLUTIONS



REMOTE 5012PN

AIRBORNE PARTICLE COUNTER

4-20mA Output

The **REMOTE 5012PN** meets the requirements of today's indoor air quality and building monitoring applications. Incorporating the latest in laser/optical particle counting technology, Lighthouse designed the **REMOTE 5012PN** for continuous trouble-free operation.

The **REMOTE 5012PN** uses a built-in vacuum pump and flow control system to insure accurate and reliable sensor performance.

With a sensitivity of 0.5 micron at a controlled flow rate of 0.1 CFM, the **REMOTE 5012PN** provides continuous real-time data at a cost-effective price per point.

The **REMOTE 5012PN** integrates seamlessly into large facility monitoring and management systems and transfers 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

Features:

- ★ Channel sizes: 0.5 - 5.0µm for GMP Compliance
- ★ 0.1 CFM (2.83 LPM) Flow Rate
- ★ Internal Vacuum Pump with Flow Control
- ★ Up to 2 Channels of Simultaneous Data
- ★ Meets JIS Standards
- ★ NEMA Style 316L Stainless Steel Enclosure
- ★ NEMA Style Powder-coated Steel Enclosure Option
- ★ LED Status Indicators
- ★ Interfaces to Facility Monitoring Systems
- ★ 4-20mA Output

Benefits:

- ★ 2 Year Warranty
- ★ Cost Effective Price per Point
- ★ Easy System Integration
- ★ AC and DC Power Options
- ★ International Sales and Service Support
- ★ Low Cost of Ownership

Applications:

- ★ HVAC Monitoring
- ★ Indoor Air Quality Monitoring
- ★ Food Process Monitoring
- ★ Public and Private Building Monitoring
- ★ Aseptic Process Monitoring
- ★ Isolator Monitoring
- ★ Aerospace
- ★ Chemical Manufacturing
- ★ Equipment Monitoring
- ★ Pharmaceutical Packaging and Manufacturing
- ★ Trend Analysis
- ★ Cleanroom Laundries
- ★ Cleanroom Packaging
- ★ Semiconductor
- ★ Hard Disk Drive Manufacturing



Specifications:

| 5012PN | |
|------------------------------|--|
| Size Range: | 0.5 - 25.0µm |
| Channel Sizes: | Standard: 0.5, 5.0µm Optional: 0.5, 10.0µm |
| Counting Efficiency: | 50% @ 0.5µm, 100% for particles >0.75µm (per JIS) |
| Flow Rate: | 0.1 CFM (2.83 LPM) |
| Laser Source: | Laser Diode |
| Zero Count Level: | <1 count / 5 minutes (per JIS) |
| Concentration Limits: | 2,000,000 particles / ft ³ @ 5% coincidence loss |
| Calibration: | NIST Traceable |
| Sample Output: | Internally filtered to HEPA standards (>99.997% @ 0.3µm) |
| Vacuum Source: | Internal Pump |
| Air Flow: | Internally Monitored and Controlled |
| Communication Modes: | 4-20mA Output |
| LED Indicators: | Power, Service |
| I/O Connection: | 8-pin Phoenix |
| External Pump Switch: | 2-pin Phoenix dry-contact relay |
| Supporting Software: | <i>Lighthouse Monitoring System; LMS XChange</i> |
| Enclosure: | NEMA Style 316L Stainless Steel - or - NEMA Style Powder-coated Steel Option |
| Power: | 110 / 220 VAC, 50-60Hz or 24VDC 60W |
| Dimensions: | 10" (w) x 12" (h) x 6.9" (d) [25.4 x 30.4 x 14.9 cm] |
| Weight: | 20 lbs (9 kg) |

Environmental Conditions:

Operating: 50°F to 104°F (10°C to 40°C), Humidity 20% to 95% non-condensing
Storage: 14°F to 122°F (-10°C to 50°C), Humidity up to 98% non-condensing

Accessories:

Included: Operating Manual on CD; AC or DC Power Kit

Optional: Printed Operating Manual; Data Cable; Sample Tubing

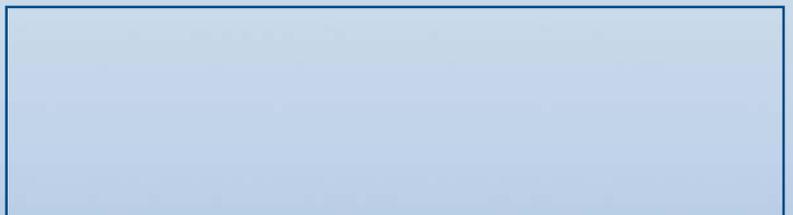
Manufactured by:



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.

LWS PN 545401657-1 Rev 1