



REMOTE 5014PN

AIRBORNE PARTICLE COUNTER

MODBUS Output

The **REMOTE 5014PN** 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 5014PN** for continuous trouble-free operation.

The **REMOTE 5014PN** 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 5014PN** provides continuous real-time data at a cost-effective price per point.

The **REMOTE 5014PN** integrates seamlessly into large facility monitoring and management systems and transfers up to 4 channels of simultaneous particle count data using RS-485 MODBUS or Ethernet MODBUS TCP.

**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 - 5.0 μ m for GMP Compliance
- ★ 0.1 CFM (2.83 LPM) Flow Rate
- ★ Internal Vacuum Pump with Flow Control
- ★ Up to 4 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
- ★ RS-485 MODBUS or Ethernet MODBUS TCP 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:

5014PN	
Size Range:	0.5 - 25.0µm
Channel Sizes:	Standard: 0.5, 5.0µm Standard: 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:	MODBUS: RS-485; Optional Ethernet: Ethernet MODBUS TCP
LED Indicators:	Power, Flow, Service, Sampling
I/O Connection:	RJ-45
External Pump Switch:	2-pin Phoenix dry-contact relay
Supporting Software:	<i>Lighthouse Monitoring System; LMS XChange; LMS Express, Express RT, RT+</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; Cabling; Data Cable; Sample Tubing

Manufactured by:



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Distributed by:

