



REMOTE 5104PN

AIRBORNE PARTICLE COUNTER

The **REMOTE 5104PN** meets the stringent requirements of today's aseptic processing applications. Incorporating the latest laser optical particle counting technology, Lighthouse designed the **REMOTE 5104PN** for continuous trouble-free operation.

The **REMOTE 5104PN** 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 1.0 CFM, the **REMOTE 5104PN** provides continuous real-time data at a cost-effective price per point.

The **REMOTE 5104PN** 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
- ★ 1.0 CFM (28.3 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 or
- ★ NEMA Style Powder Coated Steel Enclosure
- ★ LED Status Indicators
- ★ Interfaces to Facility Monitoring Systems
- ★ RS-485 MODBUS ASCII or Ethernet MODBUS TCP Output
- ★ 120VAC or 24VDC, 100W Models Available

Benefits:

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

Applications:

- ★ 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:

| 5104PN | |
|-----------------------------|---|
| 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: | 1.0 CFM (28.3 LPM) |
| Laser Source: | Laser Diode |
| Zero Count Level: | <1 count / 5 minutes (per JIS) |
| Concentration Limits: | 500,000 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 |
| Supporting Software: | <i>Lighthouse Monitoring System; LMS XChange; LMS Express, Express RT</i> |
| Enclosure: | NEMA Style 316L Stainless Steel or Powder Coated Steel |
| Power: | 110 / 220 VAC, 50-60Hz or 24VDC 100W |
| Dimensions: | 10" (w) x 12" (h) x 6.9" (d) [25.4 x 30.4 x 14.9 cm] |
| Weight: | AC Model, 20 lbs (9 kg); DC Model, 19.5 lbs (8.85 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 Input Connector Kit; Industrial RJ45 Kit; Fuse(s)
Optional: Printed Operating Manual; Cabling; Data Cable; Sample Tubing; 24VDC 100W Power Adapter (DC Model)

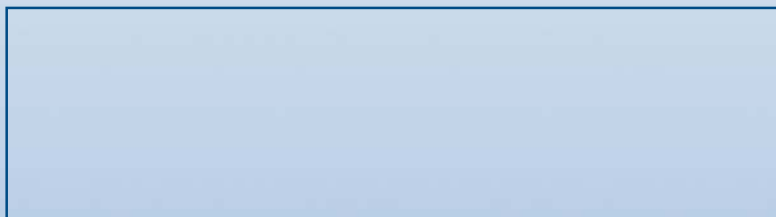
Manufactured by:



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Distributed by:



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

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