



LIGHTHOUSE
WORLDWIDE SOLUTIONS



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 4 Channels of Simultaneous Data
- ★ Meets JIS Standards
- ★ NEMA Style 316L Stainless Steel Enclosure
- ★ 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
- ★ 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, RT+</i>
Enclosure:	316L Stainless Steel
Power:	24V DC
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

Optional: Printed Operating Manual; Cabling; Data Cable; Sample Tubing

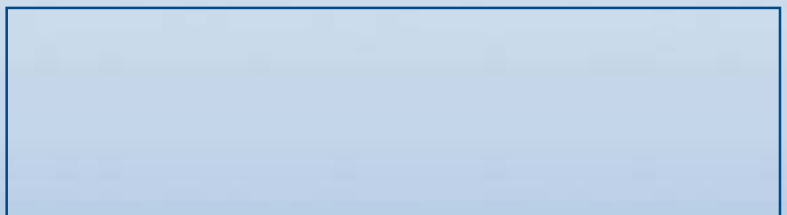
Manufactured by:



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Distributed by:



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

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