





REMOTE 3104P, 5104PN AIRBORNE PARTICLE COUNTERS

Incorporating the Extreme Life Laser Diode Technology for a >20-year Mean Time to Failure (MTTF). Lighthouse designed the **REMOTE 3104P**, **5104P** and **5104PN** airborne particle counters for continuous trouble-free operation.

With sensitivities of 0.3 and 0.5 micron, respectively, at a flow rate of 1 CFM (28.3 LPM), the **REMOTE 3104P**, **5104P** and **5104PN** provide real-time continuous data collection at a cost-effective price per point. Using an internal vacuum source, the compact **REMOTE 3104P**, **5104P** and **5104PN** particle counters can be installed where space is at a premium.

The **REMOTE 3104P**, **5104P** and **5104PN** integrate seamlessly into large facility monitoring and management systems by leveraging their Ethernet, RS-485 MODBUS or Serial USB ports. Transferring up to 6 channels of simutaneous particle count data is fast and easy for these instruments.

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

Lighthouse is an ISO 9001:2008 Registered Company.

Features:

REMOTE 3104P : 0.3 - 25.0 μm
 REMOTE 5104P : 0.5 - 25.0 μm
 REMOTE 5104PN : 0.5 - 5.0 μm

- 0.1 cfm (2.83 LPM) Flow Rate with internal pump
- Up to 2-6 Channels of Simultaneous Data
- All Models Meet JIS Standarts
- · Stainless Steel Enclosure
- Up to Four 4-20 mA Inputs (30 mW)
- LED Status Indicators
- Externel Alarm Connector
- Ethernet, RS-485 Modbus and Serial USB ports
- Facility Monitoring Systems Interface
- Flow-controlled Internal Vacuum Pump
- >20 Year Mean Time To Failure Reliability

Benefits:

- 2 Year Warranty
- Installs 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

Applications:

- Aseptic Process Monitoring
- Isolator Monitoring
- Aerospace
- · Chemical Manufactoring
- Equipment Monitoring
- Pharmaceutical Packaging and Manufacturing
- Trend Analysis
- Cleanroom Laundries
- Cleanroom Packaging
- Semiconductor
- Hard Disk Drive Manufacturing







	3104P	5104P	5104PN
Size Range:	0.3- 25.0 μm	0.5 - 25.0 μm	0.5 - 25.0 μm
Channel Sizes:	Standard : 0.3, 0.5, 1.0, 5.0 μm	Standard : 0.5, 1.0, 5.0, 10.0 μm	Standard : 0.5, 5.0 μm Standard : 0.5, 10.0 μm
Counting Efficiency:	50% @ 0.3 μm; 100% for particles > 0.45 μm (per JIS)	50% @ 0.5 μm; 100% for particles > 0.75 μm (per JIS)	50% @ 0.5 μm; 100% for particles > 0.75 μm (per JIS)

Additional Channel Sizes are available. Please contact your Lighthouse Sales Engineer for more information about these options.

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Flow Rate :	1.0 CFM (2.83 LPM)		
Laser Source :	Laser Diode		
Zero Count Level :	<1 count / 5 minutes (per JIS)		
Concentration Limits :	500,000 Particles / ft ³ @ 5% Coindicence Loss		
Calibration :	NIST Traceable		
Vacuum Requirements :	Internal Vacuum Pump		
Air Flow :	Internally Monitored and Controlled		
Communication Modes:	Ethernet, RS-485 MODBUS, Serial USB		
LED Indicators :	Power, Flow, Service, Sampling		
Data Storage :	3,000 Samples		
Connector :	2 RJ45, 2 RJ12 and one USB 'B'		
Supporting Software :	LMS XChange, Lighthouse Monitoring System; LMS Express; Express RT and RT+; LMSNet		
Up to Four 4-20 mA Inputs :	Can be used with the Lighthouse standard 4-20 mA Temperature/Relative Humidity, Air Velocity or Differential Pressure Probes or any other 4-20 mA device		
External Alarm Output:	Normally Open Dry Contact Rated 0-60 V AC/DC 1 Amp		
Enclosure :	Stainless Steel		
Power :	24 VDC		
Dimensions :	9.5"(I) x 6.5"(w) x 8.51"(h) [24.13 x 16.51 x 21.62 cm]		
Weight :	12.33 lbs (5.59 kg)		

Environmental Conditions

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

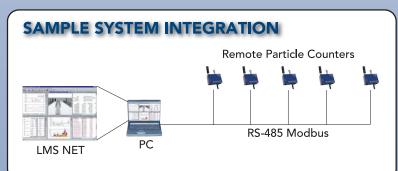
Accessories

Included : Operating Manual on CD

Optional:

Printed Operating Manual; RS-485 Hub with Power Supply; RS-232 Communication Cable and Adapter;

USB to Serial Port Converter; Network Adapter; USB to Serial Port Converter; Network Adapter;
Wireless Network Adapter; Isokinetic Sampling Probes;
Vacuum Tubing; Sample Tubing; Data Cable; Purge Filter;
Power Supply; Temperature/ Relative Humidity Probe;
8' T/RH Probe Extension Cable; REMOTE Mounting Kit;
LMSXChange, LMS Express; Express RT and RT+,LMSNetsoftware;
RS-485 Communication Kit; High-Pressure Diffuser.



Manufactured by:



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