LIGHTHOUSE
WORLDWIDE SOLUTIONS

REMOTE 3104, 5104

AIRBORNE PARTICLE COUNTERS

Incorporating the latest in laser optical particle counting technology, Lighthouse designed the ***REMOTE 3104*** and ***5104*** for continuous trouble-free operation.

With a sensitivity of 0.3 and 0.5 micron, respectively, at a flow rate of 1.0 CFM (28.3 LPM), the ***REMOTE 3104*** and ***5104*** provide real-time continuous data collection at a cost-effective price per point.

Using an external vacuum source, the compact ***REMOTE 3104*** and ***5104*** provide versatile mounting options and can be installed where space is at a premium. The optional T/RH Probe can be mounted up to eight feet from the instrument by using an optional extension cable.

The ***REMOTE 3104*** and ***5104*** integrate seamlessly into large facility monitoring and management systems and transfer up to 4 channels of simultaneous particle count and environmental data using RS-485 Modbus.

With the optional Network or Wireless Adapter, the ***REMOTE 3104*** or ***5104*** can be connected to TCP/IP LANs.

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

Lighthouse is an ISO 9001:2000 Registered company.

www.golighthouse.com

Features:

- REMOTE 3104: 0.3 -25 µm
- REMOTE 5104: 0.5 -25 µm
- 1.0 CFM (28.3 LPM) Flow Rate
- Up to 4 Channels of Simultaneous Data
- All Models Meet JIS Standards
- Compact Size
- Stainless Steel Enclosure
- Status Indicators
- External Alarm Connector
- Optional Temperature/Relative Humidity Probe
- RS-485 Modbus Output
- Facility Monitoring Systems Interface
- Versatile Mounting Options
- External Vacuum Source
- Designed for 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

Optional T/RH Probe

Direct Mount Isokinetic Probe

RJ45 Connector

Status LEDs

Alarm Relay

Flow Status Monitoring

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Specifications:

	3104	5104
Size Range:	0.3 - 25.0µm	0.5 - 25.0µm
Channel Sizes:	Standard: 0.3, 0.5µm Optional: 0.3, 0.5, 0.7, 1.0µm; 0.3, 0.5, 1.0, 5.0µm; Optional: 0.3, 0.5, 5.0, 10.0µm	Standard: 0.5, 5.0µm; 0.5, 10.0µm Optional: 0.5, 1.0, 5.0, 10.0µm; 0.5, 5.0, 10.0, 25.0µm
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)

Additional channel sizes are available - please contact your Sales Engineer for information regarding these options.

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
Vacuum Requirements:	External Vacuum >18" (45.72) of Hg
Air Flow:	Internally Monitored
Communication Modes:	RS-485 MODBUS
LED Indicators:	Power, Flow, Service, Sampling
Connector:	RJ45
Supporting Software:	*LMS XChange*, *Lighthouse Monitoring System*, *LMS Express*, *LMS Express RT/RT+*, *LMS Net*
Environmental Sensors:	(Optional) Temperature/Relative Humidity Probe 32 - 122F (0-50C)+/-1F (0.5C), 0 - 100% RH +/-2%
External Alarm Output:	Normally Open Dry Contact Rated 0-60 V AC/DC 1 Amp
Enclosure:	Stainless Steel
Power:	24 VDC
Dimensions:	REMOTE 3104: 3.5"(l) x 4.2"(w) x 3.3"(h) [8.89 x 10.66 x 8.38 cm] REMOTE 5104: 1.7"(l) x 4.2"(w) x 3"(h) [4.3 x 10.7 x 7.6 cm]
Weight:	REMOTE 3104: 2 lb (0.90 kg); REMOTE 5104: 0.97 lb (0.44 kg)

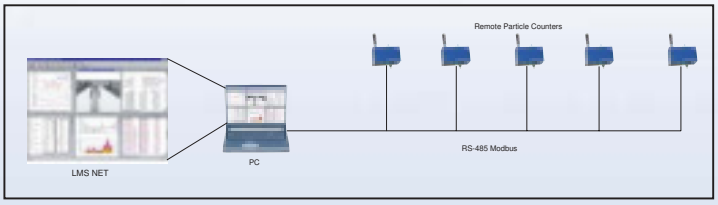
Environmental Conditions:

Operating: 50°F to 104°F (10°C to 40°C) / 20% to 95% non-condensing
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*; *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; *LMS XChange*, *LMS Express*; *Express RT* and *RT+*, *LMSNet* software; RS-485 Communication Kit; High-Pressure Diffuser.



SAMPLE SYSTEM INTEGRATION

Manufactured by:

LIGHTHOUSE
WORLDWIDE SOLUTIONS

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Distributed by:

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

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