



LIGHTHOUSE
WORLDWIDE SOLUTIONS



REMOTE 2014P, 3014P, 5014P Airborne Particle Counters

Incorporating the latest in laser optical particle counting technology, Lighthouse designed the **REMOTE 2014P, 3014P** and **5014P** airborne particle counters for continuous trouble-free operation.

With sensitivities of 0.2, 0.3 and 0.5 micron, respectively, at a flow rate of 0.1 CFM (2.83 LPM), the **REMOTE 2014P, 3014P** and **5014P** provide real-time continuous data collection at a cost-effective price per point. Using an internal vacuum source, the compact **REMOTE 2014P, 3014P** and **5014P** particle counters can be installed where space is at a premium.

The **REMOTE 2014P, 3014P** and **5014P** integrate seamlessly into large facility monitoring and management systems and transfer up to 6 channels of simultaneous particle count data using RS-485 Modbus.

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

Lighthouse is an ISO 9001:2008 Registered Company.

www.golighthouse.com

Features:

- ★ REMOTE 2014P: 0.2 - 2µm Range
- ★ REMOTE 3014P: 0.3 - 25.0µm Range
- ★ REMOTE 5014P: 0.5 - 25.0µm Range
- ★ 0.1 CFM (2.83 LPM) Flow Rate with Internal Pump
- ★ Up to 6 Channels of Simultaneous Data
- ★ All Models Meet ISO 21501-4 Standards
- ★ Compact Size
- ★ Stainless Steel Enclosure
- ★ Up to Four 4-20 mA Inputs (30 mW)
- ★ LED Status Indicators
- ★ Peripheral Interface Connector
- ★ RS-485 Modbus, Ethernet LAN
- ★ Facility Monitoring System Interface
- ★ Flow-controlled Internal Vacuum Pump
- ★ 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



Direct Mount
Isokinetic Probe



Status LEDs



4-20mA
Inputs



PIC and
Remote Display



RJ-45
Connectors



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Specifications:

	2014P	3014P	5014P
Size Range:	0.2 - 2.0 μm	0.3 - 25.0 μm	0.5 - 25.0 μm
Channel Sizes:	Standard: 0.2, 0.3, 0.5, 1.0 μm	Standard: 0.3, 0.5, 1.0, 5.0 μm	Standard: 0.5, 1.0, 5.0, 10.0 μm
Counting Efficiency:	50% @ 0.2 μm ; 100% for particles > 0.3 μm (per ISO 21501-4)	50% @ 0.3 μm ; 100% for particles > 0.45 μm (per ISO 21501-4)	50% @ 0.5 μm ; 100% for particles > 0.75 μm (per ISO 21501-4)

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

Flow Rate:	0.1 CFM (2.83 LPM)
Laser Source:	Laser Diode
Zero Count Level:	<1 count / 5 minutes (per ISO 21501-4)
Concentration Limits:	2,000,000 Particles / ft^3 @ 5% Coincidence Loss
Calibration:	Meets ISO 21501-4 Calibration using NIST Traceable PSL Spheres, DMA and Condensation Particle Counter
Vacuum Requirements:	Internal Vacuum Pump
Air Flow:	Internally Monitored and Controlled
Communication Modes:	RS-485 MODBUS, Ethernet, USB
LED Indicators:	Power, Flow, Service, Sampling
Data Storage:	3,000 Samples
Connectors:	RJ45, USB (Type B)
Supporting Software:	LMS XChange; Lighthouse Monitoring System; LMS Express, Express RT and 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
Enclosure:	Stainless Steel
Power:	24 VDC
Dimensions:	7.25"(l) x 3.75"(w) x 6"(h) [18.41 x 9.52 x 15.24 cm]
Weight:	5.0 lbs (2.26 kg)

Environmental Conditions:

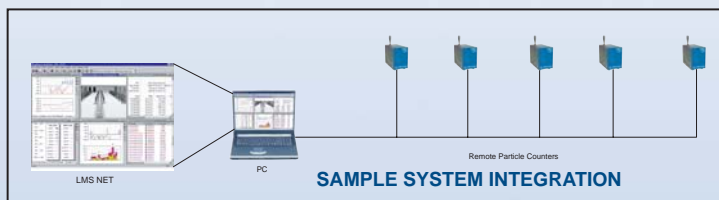
Operating: 50°F to 104°F (10°C to 40°C) / 20% to 95% non-condensing

Storage: 14°F to 122°F (-10°C to 50°C) / Up to 98% non-condensing

Accessories:

Included: Operating Manual on CD; LMS XChange; Power Supply; Power Cord

Optional: Printed Operating Manual; REMOTE Display; REMOTE Display 10-foot Extension Cable; Network Adapter; Wireless Network Adapter; Isokinetic Sampling Probe; Sample Tubing; Data Cabling; Purge Filter; Temperature/Relative Humidity Probe; Air Velocity Probe; Differential Pressure Probe; RS-232 Interface Cable and Adapter; High Pressure Diffuser (except 2014P); LMS Express, Express RT and LMSNet software



Manufactured by:



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

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