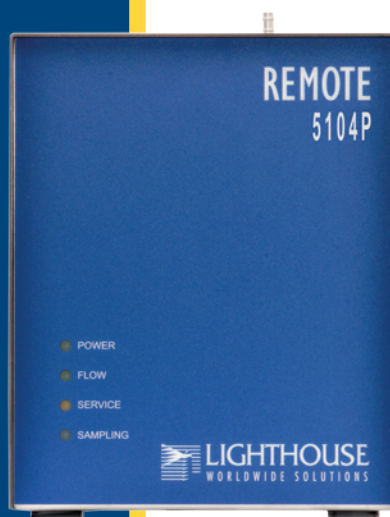
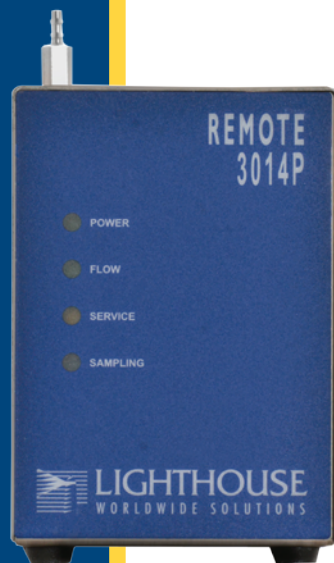


Remote with Pump

AIRBORNE PARTICLE COUNTER WITH PUMP



INCORPORATING the latest in laser optical particle counting technology, Lighthouse designed the Remote with Pump airborne particle counter line for continuous trouble-free operation.

With minimum sensitivity ranges of 0.2 μm , 0.3 μm , 0.5 μm and flow rates of 0.1 CFM and 1.0 CFM the Remote with Pump airborne particle counter line provides continuous real-time data collection at a cost-effective price per point.

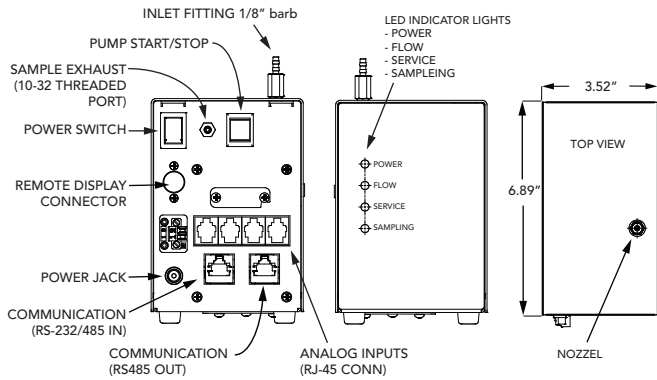
Using an internal closed loop feedback vacuum system with HEPA filtered exhaust, you can be assured of proper sample volumes and clean operation. The Remote with Pump also has the ability to take in up to 4 analog inputs (TRH, DP, AV) and outputs this data along with the particle count data directly through modbus or ethernet communications.

The Remote with Pump line will integrate seamlessly into facility monitoring and management systems providing a standard 4 channels; optional 6 channels of continuous partical count data.

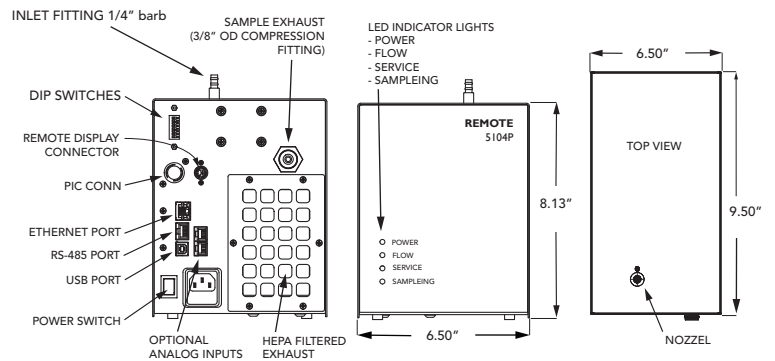
FEATURES

- 0.2 – 25.0 μm particle size ranges
- 0.1 CFM or 1.0 CFM flow rates
- Up to 6 channels of simultaneous data
- Meets ISO 21501-4 standards
- 485 Modbus, Ethernet LAN
- Up to four 4-20mA inputs
- LED status indicators
- External alarm outputs
- Stainless steel enclosure
- 2 year warranty

0.1 CFM Models



1.0 CFM Models



TECHNICAL DATASHEET

Remote Airborne Particle Counter With Pump

MODEL	Flow Rate	Size Range	# ch	Standard 4 channels (optional 6 channel available channels)	4-20mA Inputs	Communication	LED Indicators	Weight Dimensions
2014P	0.1 CFM	0.2 - 2.0 µm	4	0.2, 0.3, 0.5, 1.0 µm	4	485 Modbus, Ethernet, USB	Power, Flow, Service, Sampling	5.0 lbs (2.26 kg) 7.25"(l) x 3.75"(w) x 6"(h) [18.41 x 9.52 x 15.24 cm]
3014P	0.1 CFM	0.3 - 25.0 µm	4	0.3, 0.5, 1.0, 5.0 µm	4	485 Modbus, Ethernet, USB	Power, Flow, Service, Sampling	5.0 lbs (2.26 kg) 7.25"(l) x 3.75"(w) x 6"(h) [18.41 x 9.52 x 15.24 cm]
5014P	0.1 CFM	0.5 - 25.0 µm	4	0.5, 1.0, 5.0, 10.0 µm	4	485 Modbus, Ethernet, USB	Power, Flow, Service, Sampling	5.0 lbs (2.26 kg) 7.25"(l) x 3.75"(w) x 6"(h) [18.41 x 9.52 x 15.24 cm]
3104P	1.0 CFM	0.3 - 25.0 µm	4	0.3, 0.5, 1.0, 5.0 µm (0.3,0.5,0.7,1.0,2.0,2.5,3.0,5.0,10.0,15.0,20.0,25.0 µm)	4	485 Modbus, Ethernet, USB	Power, Flow, Service, Sampling	12.33 lbs (5.59 kg) 9.5"(l) x 6.5"(w) x 8.51"(h) [24.13 x 16.51 x 21.62 cm]
5104P	1.0 CFM	0.5 - 25.0 µm	4	0.5, 1.0, 5.0, 10.0 µm (0.3,0.5,0.7,1.0,2.0,2.5,3.0,5.0,10.0,15.0,20.0,25.0 µm)	4	485 Modbus, Ethernet, USB	Power, Flow, Service, Sampling	12.33 lbs (5.59 kg) 9.5"(l) x 6.5"(w) x 8.51"(h) [24.13 x 16.51 x 21.62 cm]

Features:

Light Source	Laser diode
Zero count level	< 1 count / 5 minutes (per ISO 21501-4)
Concentration Limits 0.1 CFM	4,000,000 particles / ft ³ @ 10% coincidence loss: 0.1 CFM: 2014P, 3014P, 5014P
Concentration Limits 1.0 CFM	1,000,000 particles / ft ³ @ 10% coincidence loss: 1.0 CFM: 3104P, 5104P
Calibration	Meets ISO 21501-4 using NIST traceable PSL spheres.
Vacuum Requirements	Internal closed loop controlled pump with HEPA filtered exhaust.
Air Flow	0.1 CFM: 2014P, 3014P, 5014P; 1.0 CFM: 3104P, 5104P.
Communication Modes	485 Modbus, Ethernet, USB.
Data Storage	3,000 sample records.
Supporting Software	LMS Express, LMS Express RT, LMS Pharma, LMS Pro.
Enclosure	Stainless steel.
Power	24 VDC.

Accessories

Included: Operating manual on CD, LMS Express, Power Supply, Power Chord.

Optional: Printed operating manual; Remote Display, 10' 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 RT, LMS Pharma, LMS Pro.

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