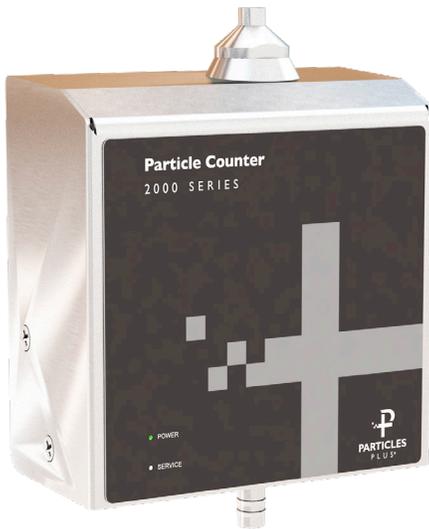




**PARTICLES**  
PLUS®

## 2510 and 2510-2 Remote Airborne Particle Counters 1.0 CFM (28.3 LPM)



The Particles Plus® 2510 and 2510-2 Remote Particle Counters provide a range of particle size measurement from 0.5 to 25.0  $\mu\text{m}$  at a flow rate of 1.0 CFM (28.3 LPM) and are designed for continuous monitoring in cleanrooms and other controlled environments. With two or four particle size channels, these instruments deliver targeted contamination detection with real-time data collection and configurable alarms for immediate incident reporting and local visual alerts.

The compact, angled enclosures enable installation in tight locations while minimizing disruption to unidirectional airflow. These sensors are equipped with an integral critical orifice and flow sensor to provide a stable flow rate from an external vacuum source.

Built for scalability and long-term reliability, these models utilize durable laser diodes backed by a lifetime warranty and deliver exceptional zero-count performance. The 2000 Series sensors allow for efficient particle counting with specifications that exceed the ISO 21501-4 and JIS B9921 calibration standards.

With seamless connectivity, remote diagnostics, and a standardized architecture, they offer simplified integration and a lower total cost of ownership for critical monitoring applications.

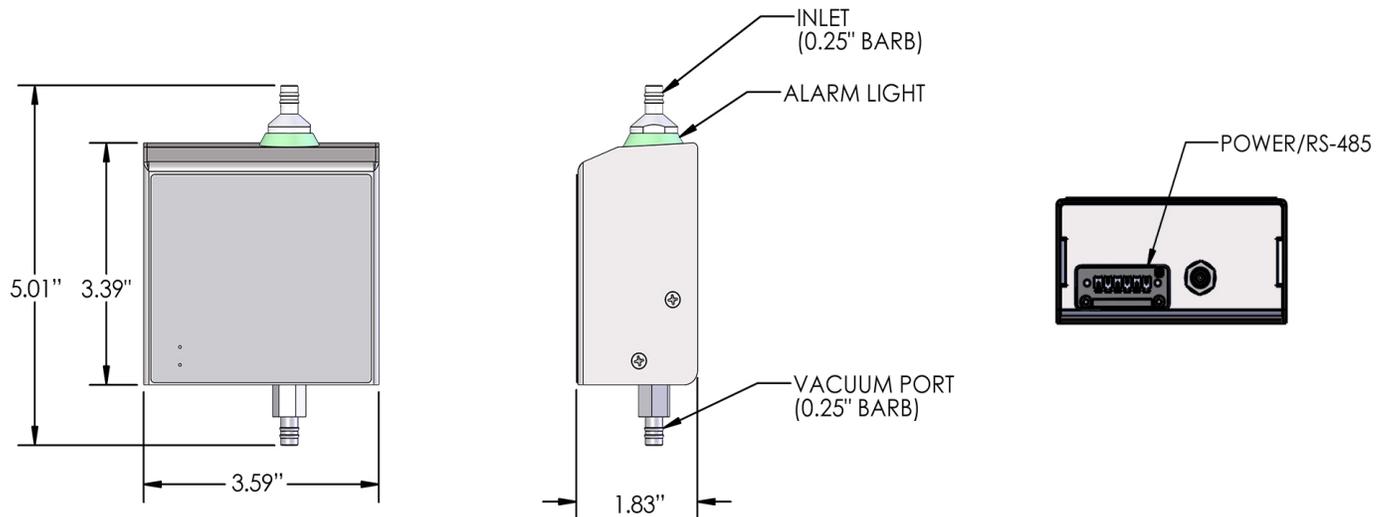
### Features and Benefits

- 1.0 CFM (28.3 LPM) flow rate
- Long life laser diode technology for reliable performance
- Measures 2 (2510-2) or 4 (2510) channels of simultaneous data
- Internal critical orifice for consistent measurements
- Accurate in high particle concentration environments
- Troubleshoot issues remotely from anywhere with an internet connection
- Modbus RTU/ASCII data communication over isolated RS-485
- Complies with ISO 21501-4 and JIS B9921 standards
- Easy to clean, lightweight stainless steel enclosure with minimal particle traps
- Versatile mounting options
- User configurable alarm light and LED indicators for real-time alerts
- Seamless integration into a facility monitoring system
- 2 Year Limited Warranty (Extended and Lifetime Warranties available)

## Specifications

Model	2510	2510-2
Size Range	0.5 µm to 25.0 µm	0.5 µm to 25.0 µm
Size Channels	Factory calibrated at 0.5, 1.0, 2.5, and 5.0 µm	Factory calibrated at 0.5 and 5.0 µm
Number of Channels	4 channels	2 channels
Counting Efficiency	50% @ 0.5µm; 100% for particles > 0.75 µm per JIS	
Flow Rate	1.0 CFM (28.3 LPM)	
Concentration Limits	1,500,000 particles/ft <sup>3</sup> @ 10% coincidence (per ISO 21501-4), 3,000,000 particles/ft <sup>3</sup> @ 10% coincidence (as tested and validated <sup>1</sup> )	
Light Source	Long life laser diode	
Zero Count	< 1 count / 5 minutes (< 1 particles / 15ft <sup>3</sup> ). No fault count subtraction.	
Calibration	NIST traceable	
Vacuum Requirements	External vacuum > 15" (38.1cm) of Hg	
Airflow	Internally monitored	
Alarm	Alarm LED ring	
Communication Modes	MODBUS™ RTU, ASCII outputs (over isolated RS-485)	
Standards	ISO 21501-4 and JIS B9921	
Instrument Calibration	Recommended minimum once per year	
External Surface	Stainless steel	
Dimensions (L x W x H)	1.83 x 3.59 x 5.01 in (4.6 x 9.1 x 12.7 cm) including probes and connectors	
Weight	1.65 lb. (0.75 kg)	
Accessories	Wiring Connector, Operating and User Manual on USB flash drive	
Optional Accessories	Power Supply, Remote Mounting Bracket, Isokinetic Probe, Filter Assembly, and Sample & Vacuum Tubing	
Sample Time	1 second to 18 hours	
Power	7-15 VDC (< 2 watts)	
Operating Conditions	41-104°F (5-40°C) / 20% to 95% non-condensing	
Storage Conditions	32-122°F (0-50°C) / Up to 98% non-condensing	
Warranty	2 Year Limited Warranty (Extended and Lifetime Warranties available)	

1- Validated by independent analysis see paper available at [www.particlesplus.com/aac2022\\_paper](http://www.particlesplus.com/aac2022_paper)



PAT. <https://particlepatents.com/> Additional Patents Pending.  
 Particles Plus, Inc. reserves the right to change specifications without notice.  
 Contact [hello@particlesplus.com](mailto:hello@particlesplus.com) or your local distributor for more details.  
 Particles Plus and the Particles Plus logo are trademarks of Particles Plus, Inc.  
 ©2025 Particles Plus, Inc. All rights reserved.

REV 20260220-2510/2510-2



1490 Central Street  
 Stoughton, MA 02072 U.S.A.  
 +1-781-341-6898  
[www.particlesplus.com](http://www.particlesplus.com)