

9510 Remote Airborne Particle Counters

1.0 CFM (28.3 LPM)

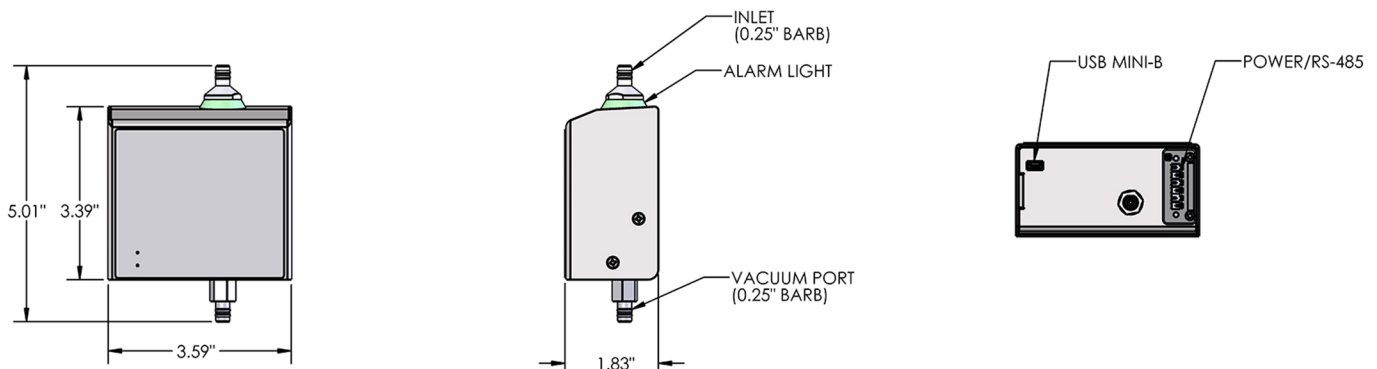


The 9510 particle counters provide a range of particle size measurement from 0.5 to 10.0 μm at a flow rate of 0.1 CFM (2.83 LPM). These sensors allow for efficient particle counting with specifications that exceed the ISO 21501-4 and JIS B9921 calibration standards.

These sensors have 6 user-selectable particle size channels (up to 30 channels optional) and are equipped with an integral critical orifice and flow sensor to provide a stable flow rate from an external vacuum source. Integration into a building automation or facility monitoring system is easy via isolated RS-485 Modbus communication.

Features and Benefits

- 9510: Measures 0.5 μm to 10.0 μm
- 1.0 CFM (28.3 LPM) flow rate
- Long life laser diode technology
- Measures up to 6 channels of simultaneous data (30 channels optional)
- Particle concentrations up to 1,500,000 Particles/ ft^3 @ 10% coincidence loss
- Internal critical orifice
- User-selectable channel sizes
- Stores up to 65,000 sample records for on-board data redundancy
- (Optional) temperature and relative humidity probe available
- Connect using Modbus RTU/ASCII over isolated RS-485
- Complies with ISO 21501-4 and JIS B9921 standards
- Easy to clean and wipe down with minimal particle traps
- Versatile mounting options
- Alarm light
- LED Indicators
- Seamless integration into a facility monitoring system
- Lightweight stainless steel enclosure
- 2 year warranty. Extended warranties available.





Specifications

| | |
|------------------------|--|
| Model | 9510 |
| Size Range | 0.5 to 10.0 µm |
| Size Channels | Factory calibrated at 0.5, 1.0, 2.5, 5.0, and 10.0µm |
| Number of Channels | 6 channels (up to 30 optional) |
| 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 ³ @ 10% coincidence loss |
| Light Source | Long life laser diode |
| Zero Count | < 1 count / 5 minutes (< 1 particles / 15ft ³) |
| Count Alarms | 1 to 9,999,999 |
| Calibration | NIST traceable |
| Vacuum Requirements | External vacuum > 15" (38.1cm) of Hg |
| Airflow | Internally monitored |
| Configuration/Download | USB mini-B |
| Alarm | Alarm LED ring |
| Communication Modes | MODBUS™ RTU or 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) | 3.59" x 1.83" x 5.01" (9.1 cm x 4.6 cm x 12.7 cm) including probes and connectors |
| Weight | 1.65 lb. (0.75 kg) |
| Accessories | Wiring Connector, operating manual on USB flash drive |
| Optional Accessories | Power Supply, Remote Mounting Bracket, Stainless Steel Barbed Isoprobe (1.0 CFM/28.3 LPM), Purge Filter Assembly, and Sample & Vacuum Tubing |
| Buffer Memory | 65,000 sample records (rotating buffer) including particle count data and environmental data |
| Sample Time | 1 second to 99 hours |
| Power | 9 - 24 VDC (< 2.5 watts) |
| Operating Conditions | 41° to 104°F (5° to 40°C) / 20% to 95% non-condensing |
| Storage Conditions | 32° to 122°F (0° to 50°C) / Up to 98% non-condensing |
| Warranty | 2 year limited warranty. Extended warranties available. |

PAT. <https://particlepatents.com/> Additional Patents Pending.

Particles Plus, Inc. reserves the right to change specifications without notice. Contact hello@particlesplus.com or your local distributor for more details. Particles Plus and the Particles Plus logo are trademarks of Particles Plus, Inc. ©2022 Particles Plus, Inc. All rights reserved.

REV 20220718-9510



31 Tosca Drive
 Stoughton, MA 02072 U.S.A.
 +1-781-341-6898
www.particlesplus.com