

9301P-OEM 0.1 CFM (2.83 LPM)



The Particles Plus® 9301P-OEM Airborne Particle Counters feature a minimalist design to maximize functionality for researchers and OEM application, with 30 user-selectable particle size channels ranging from 0.3 up to 25.0 μ m at a 0.1 CFM (2.83 LPM) flow rate.

Calibrated to ISO 21501-4 standards for traceability, the 9301P-OEM features onboard storage for redundant data validation and secure user access. Built for scalability and long-term reliability, these models utilize durable laser diodes backed by a lifetime warranty, and deliver exceptional zero-count performance. With seamless connectivity, remote diagnostics, and a standardized architecture, the Particles Plus® 9301P-OEM offers simplified integration and a lower total cost of ownership for critical monitoring applications.

The assembly is mounted on a plate for ease of integration. The unit includes a particle sensor, particle counter board, integrated vacuum pump and manifold with pre/post filters, real-time clock/calendar with battery backup, logging and data storage for up to 65,000 sample records. It communicates via UART and operates from 7-15 VCD.

Features and Benefits

- 1.2 LPM flow rate
- Long life laser diode technology for reliable performance
- Measures up to 30 channels of simultaneous data
- Accurate in high concentration environments with minimal time to zero-count
- · Internal vacuum pump and HEPA filtered exhaust
- Troubleshoot issues remotely from anywhere with an internet connection
- Stores up to 65,000 sample records for on-board data redundancy
- · User-selectable channel sizes
- Complies with ISO 21501-4 and JIS B9921 standards
- Assembly mounted on back plate for ease of integration
- 2 Year Limited Warranty (Extended and Lifetime Warranties available)

Specifications

Model 9301P-OEM Size Range 0.3 to 25 µm Size Channels Factory calibrated at 0.3, 0.5, 1.0, 2.5, 5.0, 10.0 µm Counting Efficiency 50% @ $0.3\mu m$; 100% for particles > $0.45 \mu m$ per JIS Flow Rate / Accuracy 0.1 CFM (2.83 LPM) Concentration Limits 10,000,000 particles/ft3 @ 10% coincidence (per ISO 21501-4), No appreciable drift. 20,000,000 particles/ft³ @ 10% coincidence (as tested and validated¹) Aerosol Concentration Range 0.01 to 20,000 µg/m3 Light Source Long life laser diode Zero Count <1 count / 60 minutes (<1 particles / 6 ft³). No fault count subtraction. No appreciable drift. Resolution 0.00003 µg/m³ Calibration **NIST Traceable** Internal Vacuum Pump Integrated pump Filtered Exhaust HEPA filtered exhaust Airflow Internally monitored Number of Channels Up to 30 channels Alarm Adjustable built-in alarm Communication Modes Modbus (RTU/ASCII) via 3.3v UART Standards ISO 21501-4 and JIS B9921 Instrument Calibration Recommended minimum once a year Dimensions (LxWxH) 3.41 x 4.89 x 1.57 in (8.7 x 12.4 x 4.0 cm) includes inlet Weight 13 oz (368 grams) Optional Accessories 9301P-OEM Starter kit, 9000 Series Breakout Board, Square Base with flanges

Data Storage 65,000 sample records (rotating buffer) with environmental data Sample Time 1 second to 99 hours Power 7 - 15 Vdc (< 2 watts max)

Operating Conditions 41° to 104°F (5° to 40°C) / 20% to 95% non-condensing RH Storage Conditions 32° to 122°F (0° - 50°C) / < 98% non-condensing RH

2 Year Limited Warranty (Extended and Lifetime Warranties available) Warranty







