

## 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  $\mu\text{m}$  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.

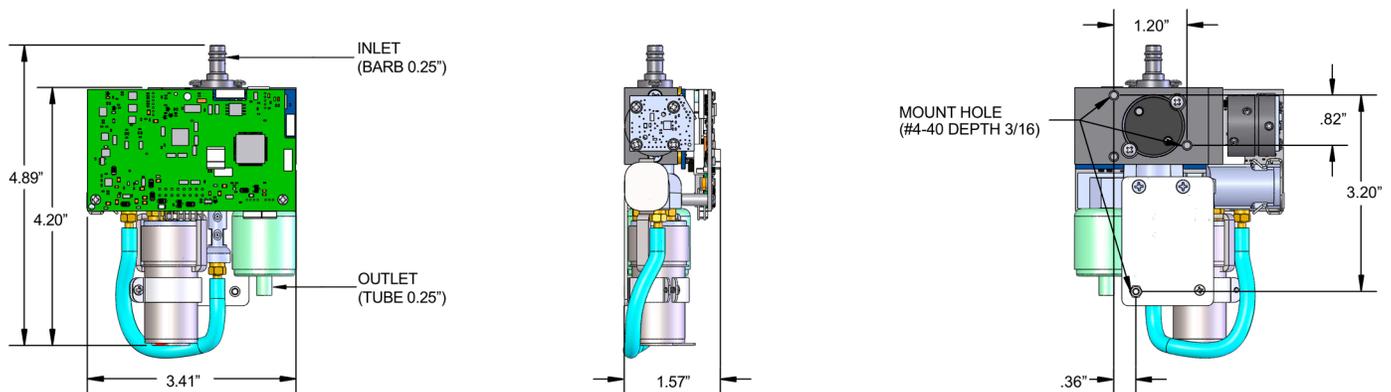
The assembly is mounted on a plate for ease of integration. The unit includes a particle sensor, particle counter board, integrated vacuum pump and manifold with pre/post filters, real-time clock/calendar with battery backup, logging and data storage for up to 65,000 sample records. It communicates via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

|                             |   |
|-----------------------------|---|
| <b>Model</b>                | <b>9301P-OEM</b>  |
| 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% @ 0.3µm; 100% for particles > 0.45 µm per JIS   |
| Flow Rate / Accuracy        | 0.1 CFM (2.83 LPM)  |
| Concentration Limits        | 10,000,000 particles/ft <sup>3</sup> @ 10% coincidence (per ISO 21501-4), No appreciable drift.<br>20,000,000 particles/ft <sup>3</sup> @ 10% coincidence (as tested and validated <sup>1</sup> ) |
| Aerosol Concentration Range | 0.01 to 20,000 µg/m <sup>3</sup>  |
| Light Source                | Long life laser diode   |
| Zero Count                  | <1 count / 60 minutes (<1 particles / 6 ft <sup>3</sup> ). No fault count subtraction. No appreciable drift.  |
| Resolution                  | 0.00003 µg/m <sup>3</sup>   |
| 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 (L x W x H)      | 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  |
| Warranty                    | 2 Year Limited Warranty (Extended and Lifetime Warranties available)  |



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