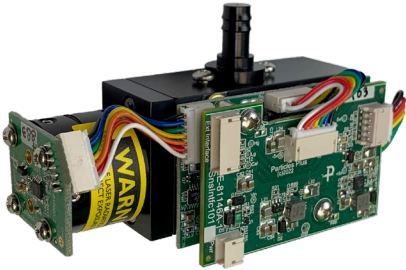


## 4300-OEM Particle Sensor



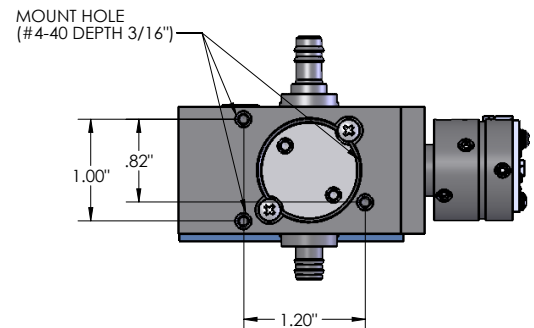
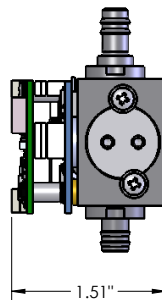
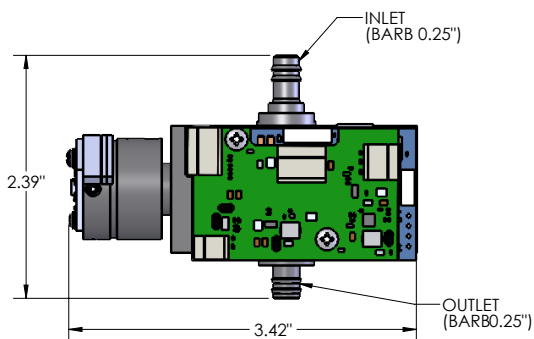
The Particles Plus® 4300-OEM is a laser-based particle sensor that uses the light scattering method to detect and count particles in any given indoor or outdoor environment. The 4300-OEM measures particles from 0.3 to 25.0  $\mu\text{m}$ . The sensor is ideal to detect the concentration of particles precisely in real-time. The unit includes a particle sensor, particle counter board and operates from 9-15 VDC.

The 4300-OEM particle sensors use the particle concentration analysis principle of Lorenz–Mie solution. A high intensity light source is used to illuminate particles as they pass through the detection chamber. As a particle passes through the light source and if light scattering is used, then the redirected light is detected by a photo detector.

The 4300-OEM ensures compliance with an on-board pulse height analyzer and could meet ISO 21501-4 and JIS B9921 standards.

### 4300-OEM: Features and Benefits

- Measures 0.3  $\mu\text{m}$  to 25  $\mu\text{m}$
- Long life laser diode technology
- 2 Analog Channels (High-Gain and Low-Gain)
- 1.2 LPM nozzle
- ISO 21501-4 and JIS B9921 standards capable
- 1 year warranty. Extended warranties available





## Specifications

<b>Model</b>	<b>4300-OEM</b>
Measured Parameter	Fine particle counts, concentration and mass
Operating Principle	Optical light scattering
Light Source	Long life laser diode technology
Particle Size Range	0.3 to 25 $\mu\text{m}$
Flow Rate	1.2 LPM nozzle
Zero Stability	No appreciable drift
Channels	# of channels determined by integrator via external circuitry
Communication Modes	Analog pulses on two channels: High-Gain channel outputs pulses for 0.3 $\mu\text{m}$ to 0.7 $\mu\text{m}$ and the Lo-Gain channel outputs pulses for the 0.7 $\mu\text{m}$ to 10 $\mu\text{m}$ particulates
Dimensions (L x W x H)	2.39" x 3.42" x 1.51" (6.07 cm x 8.68 cm x 3.83 cm) includes inlet
Weight	5.24 oz (148.8 grams)
Operating Conditions	41° to 104°F (5° to 40°C) / 20% to 95% non-condensing RH
Storage Conditions	32° - 122°F (0° - 50°C) / < 98% non-condensing RH
Accessories	Quick start manual on a USB flash drive
Optional Accessories	Standard exhaust filter, high efficiency exhaust filter
Power	9 - 15 VDC with a max of 1.25 watts
Warranty	1 year limited warranty. Extended warranties available