

IsoAir[®]

Aerosol Particle Sensor



IsoAir particle sensors make aerosol monitoring trouble-free and cost effective.

These compact, simple to install sensors provide unparalleled performance.

Sensors easily interface with Particle Measuring Systems' optional Pharmaceutical Net, Facility Net, or OPC software for comprehensive management of cleanroom conditions.



BENEFITS

Ensure Compliance

- Quick particle event notification with real-time monitoring
- 0.5 and 5.0 micron channels for GMP compliance
- Proven technology provides reliable and accurate data
- Identify breakdowns in critical zone protection
- Validation documentation available
- May extend your cleanroom classification period from 12 to 24 months

Increase Productivity

- Alarm paging system allows immediate response
- Stainless steel isokinetic sample probe and cap are easy to clean/wipe down
- Passivated, stainless steel surface has well-defined microbial control characteristics
- Rugged, chemically resistant, and easy-to-disinfect enclosure
- Diode laser reduces maintenance requirements
- Special XR coatings option protects sensor against corrosive or oxidizing vapors

Cost Effective

- Low cost solution for multi-location monitoring
- Compact, complete monitor is easy to install, even within isolators

APPLICATIONS

- Cleanroom monitoring
- Aerospace and industrial applications
- Trend analysis and statistical process control
- Isolator monitoring
- Monitoring in VHP-sterilized rooms
- Class 1, Div 2 option available

Without measurement, there is no control.

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specifications

Airnet® sensor	301/ 301 OPC	310	510/ 510 OPC	510XR/ 510XR OPC
Size range (µm)	0.3, 0.50	0.3, 0.5, 1.0, 5.0	0.5, 5.0	0.5, 5.0
Flow rate	0.1 CFM (2.8 LPM)	1.0 CFM (28 LPM)	1.0 CFM (28 LPM)	1.0 CFM (28 LPM)
Counting efficiency ²	50% ± 10% at 0.3 µm	50% ± 10% at 0.3 µm	50% ± 10% at 0.5 µm	50% ± 10% at 0.5 µm
Vacuum source	> 11 in. Hg	> 8 in. Hg	> 11 in. Hg	> 11 in. Hg
Calibration	Materials used are traceable to the U. S. National Institute of Standards and Technology (NIST).			
Sensor performance	See <i>Airnet Sensor Specifications</i> sheet for information on counting efficiency, zero count level, maximum concentration, etc.			
Exterior surface	Passivated stainless steel (Grade 316L)			
Internal protection	KYDEX® casing for Airnet sensor			
Communications	Ethernet (data, instructions), RS-232 (setup and diagnostics only) 4-20mA (outputs three channels: two particle data, one instrument status) OPC communications (optional)			
Controlling software	Pharmaceutical Net, Facility Net (purchase separately)			
Status indicators	Ethernet –	Programmable: Two color LEDs Activity: One color LED		
	4-20 mA interface –	Laser and flow status: Two color LEDs Activity: One color LED		
	OPC Interface (optional) –	Laser and flow status: Two color LED Activity: One color LED		
Dimensions* (l, w, h)	8 x 4.75 x 6 in. (20 x 12 x 16 cm)			
Weight*	6.5 lbs. (3 kg)			
Power	24 volts DC or Universal power supply: 85-264 VAC 50/60 Hz			
Environment	Temperature: 39°F - 95°F (4°C - 35°C); Humidity: non-condensing			

*Dimensions and weight will increase if the Airnet 310 sensor is used.
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Particle Measuring Systems, Inc. reserves the right to change specifications without notice.



Registration applies to the Boulder, Colorado facility.



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