

Airnet®

Aerosol Particle Sensors

Airnet sensors from Particle Measuring Systems make it easy and cost-effective to simultaneously monitor aerosols from multiple locations. These aerosol particle sensors offer a small footprint, unparalleled performance, and superior data transmission capabilities.



BENEFITS

Reduce Defects

- Real-time monitoring of defect-causing particles
- Proven technology provides reliable and accurate data
- Users can react immediately to particle contamination events

Increase Productivity

- Low-cost solution for multipoint monitoring
- Interfaces with Facility Net or Pharmaceutical Net software for comprehensive management of cleanroom conditions
- System validation documentation available

Cost-Effective

- Small footprint and flexible mounting options make it easy to install in cleanrooms and minienvironments
- Easy to clean/wipe down; designed to minimize particle traps
- Rugged, chemical-resistant, ESD-compatible KYDEX® casing
- Diode laser reduces maintenance
- Optional XR coating protects sensor against corrosive or oxidizing vapors

FEATURES

- Compact
- Sizing sensibilities from 0.2-5.0 microns
- Sample flow rates of 0.1 and 1.0 CFM
- Compliant with JIS accuracy standards
- Status indicators
- Smooth, durable exterior surface
- Ethernet or 4-20 mA output
- Controlled by data acquisition or monitoring control software
- XR option: specially coated sample pathway

APPLICATIONS

- Cleanroom monitoring
- Dedicated monitoring of critical locations
- Trend analysis
- Statistical process control
- Multi-location monitoring

Without measurement, there is no control.

Specifications

Airnet	201	301	501	310	510 or 510XR
Size range (µm):	0.2, 0.3, 0.5, 1.0	0.3, 0.5	0.5, 5.0	0.3, 0.5, 1.0, 5.0	0.5, 5.0
Flow rate:	0.1 CFM (2.8 LPM)	0.1 CFM (2.8 LPM)	0.1 CFM (2.8 LPM)	1.0 CFM (28 LPM)	1.0 CFM (28 LPM)
Counting efficiency*:	50% ±10% at 0.20 µm	50% ±10% at 0.30 µm	50% ±10% at 0.50 µm	50% ±10% at 0.30 µm	50% ±10% at 0.50 µm
Zero count level:	Meets JIS (less than 1 count per 5 min.)				
Maximum concentration**:	500,000/ft ³	250,000/ft ³	250,000/ft ³	50,000/ft ³	600,000/ft ³
Exterior surface:	KYDEX				
Dimensions (l, w, h):	7 x 5 x 5 in 17 x 12 x 14 cm	5 x 4 x 4 in 14 x 10 x 9 cm	5 x 4 x 4 in 14 x 10 x 9 cm	7 x 5 x 5 in 17 x 12 x 14 cm	5 x 4 x 4 in 14 x 10 x 9 cm
Weight:	5 lbs (2.3 kg)	1.6 lbs (.73 kg)	1.6 lbs (.73 kg)	5 lbs (2.3 kg)	1.6 lbs (.73 kg)
Sample probe or tubing:	1/4" ID				
Flow system:	External vacuum				
Vacuum source:	>15 in. Hg	>11 in. Hg	>11 in. Hg	>8 in. Hg	>11 in. Hg
Power:	24 volts DC				
Communications:	Ethernet connector 4-20 mA connector (three output channels: two particle data, one instrument status) RS-232 (set up and diagnostic tool only, no data)				
Status indicators:	Facility Net Interface: Programmable status: Two color LED Activity: One color LED 4-20 mA Interface: Laser and flow status: Two color LED Activity: One color LED				
Calibration:	Calibration materials used are traceable to the USA National Institute for Standards and Technology (NIST).				
Environment:	Temperature: 4-35° C Humidity: Non-condensing				

* Allow ±5% variations in sample flow

** Greater than 95% accuracy (less than 5% coincidence loss) at maximum recommendation ambient concentration.

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Particle Measuring Systems, Inc. reserves the right to change specifications without notice.

AUTHORIZED REPRESENTATIVE



Registration applies to the Boulder, Colorado facility

ISO 9001:2000
FM 40574



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