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Airnet®

Particle Sensors



Airnet sensors make it easy and cost effective to simultaneously monitor air from multiple locations. These 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 cleanoom 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 Kydex® casing*
- *Diode laser reduces maintenance*
- *Optional XR coating protects sensor against corrosive or oxidizing vapors*
- *Optional OPC communications reduces integration costs*
- *Automatic laser shutdown reduces laser failures (not available on models 201 and 310)*

APPLICATIONS

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

PARTICLE MEASURING SYSTEMS
www.pmeasuring.com

Without measurement, there is no control.

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Airnet

Particle Sensors

specifications

	201	301/ 301 OPC	501/ 501 OPC	310	510/ 510 OPC	510XR/ 510XR OPC
Size range (µm)	0.2, 0.3, 0.5, 1.0	0.3, 0.5	0.5, 5.0[1]	0.3, 0.5, 1.0, 5.0	0.5, 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)	1.0 CFM (28 LPM)
Counting efficiency[2]	70% ± 10% at 0.220 µm	50% ± 10% at 0.3 µm	50% ± 10% at 0.5 µm	50% ± 10% at 0.3 µm	50% ± 10% at 0.5 µm	50% ± 10% at 0.5 µm
Zero count	Meets JIS standards (less than 1 count per 5 min.)					
Maximum concentration[3]	500,000/ft.^{3}	1,000,000/ft.^{3}	1,000,000/ft.^{3}	50,000/ft.^{3}	500,000/ft.^{3}	500,000/ft.^{3}
Laser source	Diode					
Laser classification	Class 1 per EN60825 (Internally, a Class IIIB laser is used, per EN60825.)					
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	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)	1.6 lbs. (.73 kg)
Sample probe or tubing	1/8" ID	1/8" ID	1/8" ID	1/4" ID	1/4" ID	1/4" ID
Flow system	External vacuum; automatic laser shutoff in no-flow conditions.					
Vacuum source	>15 in. Hg	>11 in. Hg	>11 in. Hg	>8 in. Hg	>11 in. Hg	>11 in. Hg
Power	24 VDC, rated 100-240 VAC ± 10%, 50-60 Hz					
Communication connectors	Ethernet requiring cable type CAT 5 UTP, 4-20 mA (three output channels: two particle data, one instrument status), and RS-232 (configuration 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) OPC interface (optional): Laser and flow status (two-color LED), Activity (one-color LED)					
Calibration	Calibration materials used are traceable to the National Institute for Standards and Technology (NIST).					
Environment	Temperature: 4-35°C, Humidity: non-condensing					

[1] Airnet 501A has 0.5 and 1.0 µm channels.
[2] Allow ±5% variations in sample flow.
[3] Greater than 95% accuracy (less than 5% coincidence loss) at maximum recommended ambient concentration.
KYDEX® is a registered trademark of Kleerdex company.
Airnet® is a registered trademark of Particle Measuring Systems, Inc.
Particle Measuring Systems, Inc. reserves the right to change specifications without notice.

CE BSI FM 40574 Registration applies to the Boulder, Colorado facility.

AUTHORIZED REPRESENTATIVE

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